

From The STAFF

W.T.F.D.A. Headquarters, P.O. Box 514, Buffalo, NY 14205

1986 W.T.F.D.A. CONVENTION... It's time to start thinking about the 1986 club convention. Are you interested in hosting this event? If so, let's hear from you as soon as possible. Bids must be made to W.T.F.D.A. by November 1. All interested parties are asked to get a copy of the bid form--write us now, if you think you'd be able to host your club's 1986 gettogether in your hometown. All bids must be received by W.T.F.D.A. headquarters by November 1, and if only one bid is on hand by that date, that bid wins. Two or more bids will mean that there will be a membership vote to decide the site of W.T.F.D.A. convention '86. Hurry! If you're considering being the host of your club's convention, 1986 could be your year!

NEW EASTERN TV-DX EDITOR... We're very happy to announce that a veteran TV DXer and former VUD columnist is taking over the EASTERN TV section effective immediately. New editor is: John Combs, 2831 Selma, Jacksonville FL 32205. Many readers will remember the short-lived but excellent SOUTHERN TV-DX column he edited in 1977 for the VUD. A couple of years later, John took on the old FCC TV NEWS column, which has since evolved into Bill Fahber's TELEVISION NEWS. We're very grateful to have such a competent editor take over the EASTERN TV-DX duties. Reporters to this column can now send their loggings to John at the Jacksonville address above. We'd like to thank TV DXpert Bill Draeb for all the work he's put into this popular section in recent years, and hope he can do another column for us in the future!

SUPER SUMMER TROPO... While it hasn't been the best summer ever for most VHF/UHF DXers, tropo has proved to be super at times. Much of August was disappointing to some midwest DXers, but there were a few incredible ducting sessions, and some of it was a result of tropical storm and hurricane movement up the Eastern seaboard. We have word of at least one great mid-August opening that allowed Illinois DXers to catch New Jersey stations. Check upcoming DX columns for further details, and remember that in northerly regions, the best may be yet to come, as September brings Fall tropo patterns--often resulting in many days of super tropo conditions on the VHF and UHF bands.

OF INTEREST TO DXERS?... The September issue of CONSUMER REPORTS looks interesting to both TV and FM DXers, with reviews of VCRs and budget-priced FM receivers; but beware--while CR does test items for such performance parameters as selectivity and sensitivity, their ratings are far too vague to be of much use to the DX enthusiast.

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This month's cover by Dave Nieman.



MAILBOX

September, 1985

Alan Hyams
P.O. Box 130
City Island Sta.
Bronx, NY 10467

After an unofficial "summer vacation", MAILBOX returns. To those of you who attended the New Orleans convention, I hope you had fun. Sorry I was unable to attend.

Dave Nieman sent me a few issues of an interesting Spanish DX digest. "MAF" concentrates on FM-TV DX, and it's put together very much like our own VUD. It's a bit more heavy on newspaper reprints, however, and it includes some advertising. If you're interested (and you have some mastery over the Spanish language) you can write to the digest at MAF Productions Ltd., P.O. Box 38.015, 08080 Barcelona, Spain.

David Sinclair has two bits of information he'd like to pass along. First, he has a new address: 6565 Brooks St., Vancouver, B.C., V5S 3J6, Canada. Secondly, he writes: "I wish to advise that KTZZ-TV Channel 22, Seattle, signed on the air June 18, 1985. Their first full day of programming will be June 22, as an independent commercial station, transmitting at full power of five million watts."

John Combs writes in that he's tired of reading about the logging procedures debate everymonth. Still, he writes in on the topic. (It's okay, you've had a three month reprieve, right?)

"To start with, the baseline standard for a logging has to be this: is the DXer convinced, through reasonable evidence, that he/she has seen such a station? Except for photos and videotapes, we all have to take each other's word for loggings anyway. The vast majority of DXers are honest and have high standards when it comes to counting loggings.

I think insisting on call letters seen or heard is too restrictive, especially now that so many stations only ID once an hour, and some even let that slip. It's nice that some stations supply an ID every fifteen minutes during prime-time, but not all stations are so diligent. The DXer simply has to have evidence beyond a reasonable doubt that he/she has seen the station, and to use more caution when dealing with potentially phenomenal loggings, such as double-hops, long tropo ducts and the like.

Totals are fairly meaningless anyway. When I look at a DXer's totals, I always take into account the geographical location and equipment involved. So what if a Cooper, Draeb or Seybold (sorry you guys always get dragged into these arguments...) log over 1,000 stations? Put them in Florida with the same equipment, and they might be lucky to see 400-500. Put another DXer at the same location with an all-channel Radio Shack special at fifteen feet with a twin-lead, and 300 stations might be outstanding. At the risk of incurring the wrath of the cliché squad--it's all relative."

Till later, 73.,

AL

WKZO Kalamazoo, Michigan	WKZO-TV Kalamazoo, Grand Rapids	KOLN-TV Lincoln, Nebraska	KQIN-TV Grand Island, Nebraska
WJFM Grand Rapids, Michigan	WKJF Cedar Rapids, Michigan	WKJF-FM Cedar Rapids, Michigan	KMEG-TV Bloomington, Iowa



The Hot 103!

TELEVISION NEWS

Bill Faber, editor
336 Atlantic Street
Bridgeton, NJ, 08302

APPLICATIONS FOR NEW TELEVISION STATIONS

CH ERP HAAT STATE/CITY/APPLICANT
29 135 1997 CA Bureka; Sacramento Valley TV
42 5000 765 AR Little Rock; Dale Leininger
41 5000 1956 CA Ventura; Trucella Chumley
43 5000 863 MS Wiggins; South Mississippi Bcg
40 5000 904 MS Holly Springs; Terry Kim
10 35.5 1590 NM Silver City; KOAT Television
55 1000 1301 OH Hillsboro; Pioneer Broadcast'g
36 5000 987 FL Cape Coral; Family Television of Dalton Inc.
23 5000 2000 GA Dalton; Family Television of Dalton Inc.
67 5000 511 AL Troy; Lynn W. Baker
5 100 -354 AK Anchorage; Fireweed Television
64 87.1 341 FL Inverness; Nancy Sharp
14 1000 549 MT Billings; H&W Broadcasting
41 1000 3929 NM Albuquerque; T&L Enterprises
41 26.5 4144 NM Albuquerque; Graciela Olivarez
38 5000 504 NC Greenville; East Coast Media
38 5000 275 NC Greenville; Winard Broadcasting
60 5000 1057 PA Bethlehem; Ashford Commuic'ns
65 1000 -151 TX El Paso; Liquico Television
(If this is proposed KVIA/KCOS tower, then data is all messed up.)
54 5000 1529 TX Longview; Ashley Broadcasting
24 5000 294 VA Danville; Danville Broadcast'g
68 5000 751 VA Grundy; Crescendo Commuic'ns
29 135 1997 CA Bureka; Sacramento Valley Tel.
68 5000 1089 CA Novato; Magdalene Gunden
35 104 510 MI Bad Axe; Delta College
65 1000 1454 TX El Paso; UN2JC Communications
22 2000 1030 TX Galveston; Galveston ETV Inc. (amended)
51 5000 1667 WA Bellevue; J&J Partners (am'ed)
51 4688 2081 WA Bellevue; C.R. Pasquier
41 5000 1956 CA Ventura; Trucella Chumley
25 5000 998 AR Pine Bluff; Charles Ray Shinn (different data from application listed in 10/84 VUD)
11 182 2766 NV Reno; Reno Eleven Broadcasting (amended)
11 275 2092 NV Reno; Reno Telecommunications Company (amended)
11 177 2720 NV Reno; Washoe Shoshone Broadcasting Ltd. Partner'p(amended)
63 4169 2218 NJ Newton; Oneida Television Limited (amended)
51 5000 2071 WA Bellevue; Bellevue Telecasters

APPLICATIONS DISMISSED

NV Las Vegas; ch. 15; Way of the Cross of Nevada, Inc.
NM Roswell; ch. 8; Western Sun (FCC renewed license of KSNB-TV and granted transfer of license from KCBF Associates to the Stanley S. Hubbard Trust.)
FL Venice; ch. 62; Todd Broadcasting Corporation (at its request)
CA Big Bear Lake; ch. 59; Josie Moore (Joint request, granting application of Felice-Tec
CA San Bernardino; ch. 30; Asian-American Broadcasting Foundation (which had contest-

ed the FCC's approval of Angeles Broadcasting Network for interim operation)
NM Santa Fe; ch. 19; Susan Harris (joint request with Clara Rose Apodaca); Channel 19 Partnership (at its own request)
FL Miami; ch. 35; Hernandez, Costa & Associates.
NC Belmont; ch. 46; Gabriel Broadcasting Co.; Wander Broadcasting of Belmont; Scott Weisler; Piedmont Crescent Broadcasting Company (which merged with Metro Broadcasting Ltd. to form Metro-Crescent Communications Inc.)
TX Houston; ch. 61; Houston Family Television Ltd.; SMJ Television Company; Alliance Broadcasting Company Ltd. (FCC Review Board decision reversing initial decision. Urban Broadcasting Systems was granted a construction permit, prevailing on integration and diversity grounds.
FL Orange Park; ch. 25; Orange Park Florida TV Inc. (FCC upholding Review Board decision. Applicant would create a short-spacing problem.)
LA Baton Rouge; ch. 44; Baton Rouge Channel 44 Ltd. Partnership; Louisiana Super Communications Ltd. Partnership; Spondo Ltd.
WA Bellevue; ch. 51; Flomaton Communications
TX Conroe; ch. 55; Conroe Community Educational Outreach.

CONSTRUCTION PERMITS GRANTED

19 5000 1973 NM Santa Fe; CRA Broadcasting
69 5000 299 VA Fredericksburg; Rappahannock Television Broadcasting Inc.
44 5000 1965 LA Baton Rouge; Parish Family Television Ltd Partnership
59 5000 1000 CA Big Bear Lake; Felice-Tec
15 5000 2000 NV Las Vegas; People of the Fire
46 5000 1534 NC Belmont; Metro-Crescent Comm's
25 2061 496 FL Orange Park; Clay Television Inc. (FCC upholding Review Board decision)
52 105 1020 NY Ithaca; Ithaca TV Associates (Review Board decision)
61 5000 1957 TX Houston; Urban Broadcasting Systems

APPLICATIONS TO MODIFY CONSTRUCTION PERMITS

17 2600 1576 NC Goldsboro; WYED
19 2762 1243 OK Muskogee; KMKO
32 105 971 PR Aguadilla; WKU
56 2070 1000 FL Melbourne; WSTC
17 300 865 MT Missoula; KMSO-TV
64 5000 1572 CA Barstow; KSVI
15 3221 1270 TX Abilene; KSUZ-TV
21 4986 1638 VA Lynchburg; WJPR

CONSTRUCTION PERMIT MODIFICATIONS GRANTED

30 5000 776 UT Ogden; KOOG-TV
58 1191 439 MA Vineyard Haven; WCVX (granted 6/21/85; now on the air)
18 2950 990 IA Davenport; KLTJ
56 2778 1253 KY Danville; WDKY-TV
63 1782 1802 CA Oxnard; KTLI
22 68.3 2034 CA Cotati; KRCB
11 316 1710 AR Little Rock; KTHV
14 5000 1942 LA West Monroe; KARD
36 2100 ? NC Charlotte; WPCQ-TV

TELEVISION NEWS - page 2

3 100 1050 TN Chattanooga; WRCB-TV (amended)
22 3580 1411 PA Scranton; WDAU-TV
FACILITIES CHANGES GRANTED BY THE FCC
TX Houston; KHTV, ch. 39; granted MP to change ERP to 506 kw; HAAT to 1878.75' (is this their main transmitter or an auxiliary?)
CT Hartford; WHCT-TV, ch. 18; granted STA to remain off the air 6/3 to 7/23/85.
IL Joliet; WFBN, ch. 66; granted STA to operate at reduced power until 9/5/85.
IN Terre Haute; WBAK-TV, ch. 38; granted STA to operate at reduced power.
OH Cincinnati; WXIX-TV, ch. 19; granted STA to operate at increased power until 7/15.
RI Providence; WSTG, ch. 64; granted to operate at reduced power.
TX San Antonio; KNOL-TV, ch. 4; granted STA to operate at reduced power until 9/3/85.
VA Manassas; WTKK, ch. 66; granted STA to operate at reduced power.
PR Aguadilla; WVED, ch. 44; granted STA to remain off the air until 9/10/85.
PR San Juan; WIPR-TV, ch. 6; granted STA to operate at reduced power.
CA Sacramento; KVIE, ch. 6; granted CP to raise ERP from 55 kw to 100 kw max.; 1888' AAT/1995' AG/1896' ASL (766' higher AAT; 352' higher ASL); TL to 2.2 miles north of Walnut Grove, south of Twin Cities Road; coordinates 38°16'18"/121°30'18" (1.7 miles north of present TL)
OH Sandusky; WOGN-TV, ch. 52; granted CP to raise ERP from 49 kw max to 1073.4 kw max.; 774' AAT/715' AG/1415' ASL (104' higher); same TL.
TX Houston; KHTV, ch. 39; granted license to cover MP for change: ERP from 5000 kw max to 4000 kw max; 1421' AAT/1408' AG/1485' ASL (about 564' lower). Also granted another license a week later back to 5000 kw max; 1950' AAT/1970' AG/2019' ASL; on that same date, was granted a CP for 506 kw max; 1878.75' AAT/1865' AG/1944' ASL. All the same TL, even though the antenna height data show some inconsistencies.
AK Anchorage; KIMO, ch. 13; granted license to cover changes (see 10/84 VUD)
ME Bangor; WABI-TV, ch. 5; granted license to cover CP for changes. (see 2/85 VUD)
MA Springfield; WWLP, ch. 22; granted license to cover CP for changes: reduce ERP from 4170 kw to 3410 kw max; 877' AAT/495' AG/1135' ASL (35' lower, even though the same HAAT figure is kept).
TX Tyler; KLTV, ch. 7; granted license to cover changes in TL; 990' AAT/1038' AG/1388' ASL (470' higher AAT/338' higher ASL); TL SSW of intersection of Texas State Highways 14 & 2015, near Hawkins; coordinates 32°32'20"/95°13'16" (Azimuth 12°, 13.2 miles from present TL.)
CALL LETTER CHANGES: NEW STATIONS
CH C.L. STATE/CITY/APPLICANT
58 KDTX-TV TX Dallas; KDIA-TV
16 KZAR-TV UT Provo; Morro Rock Resources
CALL LETTER CHANGES: STATIONS ON THE AIR
11 KSNB-TV AZ Tucson; KZAZ
59 XMI-TV IN Indianapolis; WPDS-TV
58 KDTX-TV TX Dallas; KDIA-TV

CHANGES IN THE TABLE OF CHANNEL ASSIGNMENTS
CO Denver; add 50z and 59z
WI Rice Lake; add 16z
PR San Juan; add *62z (site restriction 21.6 miles east to avoid short-spacing to WUSA, ch. 58 in Caguas, PR)

CONSOLIDATED HEARINGS

NE Omaha; ch. 54; Omaha Channel 54 Inc.; Maryland Williams; Omaha Telecasters, Inc.; Minority TV of Omaha.
OK Tulsa; ch. 53; Tulsa Broadcasting Group Inc.; Native American Broadcasting Company; Tulsa Television Ltd.; EAM Broadcasting.
AZ Tolleson; ch. 51; Great Arizona Broadcasting Company; Lifestyle Broadcasting Corporation; Doylan Forney; Susan Cordova Kelly; Marinar Communications Corporation; Schulze-Wagner Partnership; Tolleson Broadcasting Corporation; T.V. Broadcasters, Inc.; Tolleson-Gomez Communications Inc.; Alden Television Inc.; Hector Garcia Salvatierra Limited Partnership; Madrid Communications Ltd. Partnership; Aztec Broadcasting Corporation; Estrella Communications Ltd. Partnership; Maricopa Media Inc.; Li-Con Ltd Partnership.
FL Gainesville; ch. 61; American Communications and Television Inc.; Cozzin Communications Corporation; Gainesville Television Group Inc.; Gator Broadcasting Ltd. Partnership; Central Florida Broadcasting Corporation; Gainesville Telecasters Ltd.
FL Sebring; ch. 60; Focus Broadcast Communications Inc.; Channel 60 Inc.; Hunt Partnership; Ridge Broadcasting Company, Inc.

NEW STATIONS ON THE AIR

PA Hazleton; WWLP-TV, ch. 56z; should be safe to assume that the station has been on the air as of July, 1985. Tom Yingling reported seeing WWLP-TV, ch. 38, using dual identification with WWLP. Also, I managed to log a weak signal whose programming paralleled WWLP-TV. As of yet, there has been no confirmation from club members or research. 9.792 kw ERP; 626' AAT/411' AG/2131' ASL. Independent station; hopefully more data next month.
IA Davenport; KLTJ, ch. 18+; seen by Nate Ely testing with 3/4 CBTP on 7/3/85; seen by Robert Baker of Humboldt of Davenport, IA, with commercial programming in early August. Bob Hempel sent a clipping from the 8/1/85 Des Moines Register that reads, "KLTJ-TV, the new independent station in Davenport... is scheduled to go on the air one week from today." Recently granted CP modification for 2880 kw max ERP; 1080' AAT/1033' AG/1813' ASL; coordinates 41°19'43"/90°22'55"/ TL 1.75 miles south of Orion, on west side of Highway 150. (That puts it in Illinois, right next to the WIFB-TV tower in or near the northeast tip of Mercer County.)
OK Tulsa; KTCT, ch. 47z; signed on 7/1/1985; 1666 kw max ERP; 1513' AAT/1425' AG/2135' ASL; TL about 20 miles ESE of Tulsa on KOTV tower; coordinates 36°01'15"/95°40'32"; address: Television Communications Inc., 11414 E 58th St., Tulsa, OK, 74145.

MA Vineyard Haven; WCVX, ch. 58+, formerly W58AO, is now on as a full service broadcast station, as reported by Ben Wilkie. Recently granted a CP modification for 119 kw max ERP; 349° AAT/345° AG/370° ASL; TL WQRC-FM tower, at Oak Street, 0.6 mile north of Route 6, Barnstable; coordinates 41°41'19"/70°20'49". Owned by Cape Video Network; independent station.

FORUM

Ben Wilkie asks about WGOT, ch. 60 in Merrimack, NH. No word yet; they got their construction permit two years ago, which should be long enough to get on the air.

John Combs asks when my deadline is for the column. Perhaps others have wondered that also. I have none. There have been a few occasions when a letter came on the 13th of the month, the day I send my column. If I have space left, I'll include it. Other times I have let letters go for more than a month. (John: thanks for the free postage stamp!) He sent a news clipping, which I assume is a Florida newspaper, about network changes in North Carolina, which is really of great importance to Florida residents. WRAL (ch. 5 in Raleigh) and WTVB (ch. 11 in Durham) will switch networks because of the merger of Capital Cities and ABC. WRAL will become CBS. WTVB will become ABC. WTVB is owned by Capital Cities. In another clipping, WTLV-TV, ch. 12 in Jacksonville, is no longer on all night. Evidently not too many people stay up to watch Gunsmoke, Mannix, Rhoda or Alice at four in the morning. Other brief tidbits from John: WTKV, ch. 33 in Valdosta, GA, plans to go on the air late summer, 1985 with family and educational programs; WTGS, ch. 28 in Hardeeville, SC, is scheduled to go on 9/1/1985; as of 7/7/85, WSAV (ch. 3 in Savannah, GA), is still ABC and WJCL, ch. 22, is still NBC.

From Tim McVey: WZDX (ch. 54, Huntsville, AL): The manager of WZDX wasn't too pleased with the station's ratings for the first full month of operation. It's strongest point seemed to be during the late afternoon when the local network affiliates had network news. Jackson TN stations WJMT (ch. 16) and W38AD are both on the air. Tim says that a portable TV 25 miles south of Jackson won't be able to pick them up without a decent antenna. Both are independent stations. W38AD is heavy on movies, video music, some satellite-fed programs (INN News, BizNet, Ask Washington), and only two old syndies. WJMT is heavy on cartoons and kiddie shows in the morning and after school. Many of them as well as the other syndies are a mixture of old and current, and some of them are among the more popular. Only one movie per day, at prime time.

Tim also sent a good-sized article about WKCH, ch. 43 in Knoxville. Because its advertising rates are cheaper and its audience is more concentrated in the Knoxville, metropolitan area, WKCH is more suited to appeal to the smaller local businesses for advertising. The station is using counterprogramming strategy, with a syndicated program when the other stations have evening news, and

the popular Star Trek during the 7-8 p.m. hour during which the network stations (Eastern Time) try to fill with junk. The station as yet does not have a regular news program, but the station is still growing.

Fred McCormack answers a few questions in the July VUB. KZMC, ch. 13 in Minot, ND, probably gave up its secondary ABC affiliation when KOMY, ch. 14 signed on. (Which brings up another question: How come I never found out about KOMY (or is it KMCY?) coming on the air? And is it an ABC affiliate? When did it sign on?) "This has the effect of leaving the communities of Dickinson (KXMA-2) and Williston (KXMD-11) with no over-the-air ABC programming." The latter two are satellites of KXMC-13. "I have noticed that KCMY-14 and KBNY-17 (Bismarck, ND - wbf) are not paralleled with WDAY-6 on Sunday mornings. They sign on later and have some different programs. Both stations appear to be operating from KBNY-17's studios at present and always have a dual identification. Local news programming has not yet begun in earnest, but there are 5 minute local news segments during the Good Morning America program." "Also, KYUS-3 is a satellite of KOUS-4, and has had common ownership since March of 1984." Two new LPTV stations: K34AJ in Sioux Falls SD with 24-hour Odyssey video music. K28AP in Mellich ME, translator of KOLN-10, came on 4/10/85 with 1 kw (TPO?) on a 400' tower.

Randy Miltier sent an article from the San Jose Mercury News (which also includes news from Earth), dated 6/26/85. KTEH, ch. 54 in San Jose, which lost a large part of its funding when the Santa Clara County Board of Education dropped \$750 thousand annually from its contributions. As a result of its emergency fund raisers, it managed to raise nearly all of its goal of \$1.5 million. The station is safe for another year, but next year it has to raise \$2.5 million in pledges.

Nate Ely uncovered the mystery of the Iron Mountain translators after all these years. He got in touch with the owner of J&R Electronics, which operates them. There are no call letters for the translators on 43, 55 and 65. They are operated under STA (Special Temporary Authorization). But because of interference to ch. 64, the 65 translator's authorization was rescinded, even though the 64 translator was changed to 63 with calls W63AR. J&R apparently made up some of the call letters themselves. The owner said, for example, that the AE from W75AE was kept when the translator changed to 61, and became W61AE. So who knows if these call letters are authorized? They are all operated from the same tower, owned by UP TV Systems, and are all 200' AG except for ch. 55 and 57, which are 200' AG. They are all 100w TPO except for ch. 69, which is 20w. Radio station WJNR also uses the tower, which is situated on Millie Hill, coordinates 45°49'15"/88°02'38". Their translators are: K47AF (The Movie Channel); W57BF (WLRE, ch. 26); W59AQ (WGN, ch. 9); W61AE (WJMR, ch. 3, scrambled); W67AQ (VH-1); W63AR (CBN); K69BA (WPNE, ch. 38); W72AA (WTBS, scrambled); ch. 43 (WLUC, ch. 11); ch. 55 (WLUC, ch. 6); and ch. 65 (formerly ON-TV,

now Seleco-TV). That makes a total of eleven translators. WJMR-TV, channel 8, which has a CP to build a station in Iron Mountain, had expressed interest in having its transmitter on the same tower as the translators.

Other news from Nate: W16AL (-AC?), Land-O-Lakes, WI, is now on the air with STV. K42AO in Alexandria, MN, is now on the air, repeating KWCN-10, Appleton, MN. K11N-29 in Minneapolis is now operating a ch. 42 translator in St. James, MN. Nate also reported seeing K1JB-18 in Davenport, IA, testing with a 3/4 CBTP on 7/3/85.

Ron Wing reports that KSAS, ch. 24 in Wichita hopes to go on the air on 8/24. He sent a letter from the Wichita Eagle-Beacon (which also includes news about humans), dated 7/10. According to the article, KSAS is still trying to hire enough staff members to operate the station. "That's the word from Lee Hanna, executive vice president of Columbia Communications, which holds the license (sic) to KSAS." "Because it is a UHF independent some television sets may require a hoop antenna attachment...to receive it over the air. Hanna said Channel 24 officials would back a program to distribute the antennas." (Do I understand from this article that television sets have some mysterious ability to receive UHF network signals better than independent signals? from a UHF station?) "Wichita was a hotly contested market for an independent station because it is the largest one...in the country currently without one." "The independent station has been an on-again, off-again project for nearly five years."

Jim Korn has some corrections for the Translator-LPTV List. K55AB in Ridgecrest, CA, carries KCET-28, not KVIQ-6.

Paul Gaines sent some articles from the Detroit Free Press, which still charges for its newspapers, several dates, but all related to WXYZ-TV, ch. 7 in Detroit, owned by Capital Cities. WXYZ is one of the stations selected to be sold by Capital Cities as a result of its merger with ABC. The FCC had suggested that Capital Cities may be more likely to keep both its Philadelphia and New York stations, which overlap in coverage areas, if it sells some of its surplus television stations to minorities. But with the sale of WXYZ expected to go to about \$200 million, very few minorities seem to be interested. In a later article, it was reported that the station would be sold to Scripps-Howard for \$246 million. Some industry observers made comments that Scripps-Howard was not aggressively managed and has a reputation for running low-budget operations. Those observers wished to remain anonymous.

George Mileon sent a news clipping about WJMR-TV, ch. 6 in Providence, RI, which is having a labor dispute. When the present owners took over, the station was a closed shop, which means compulsory union membership. The owners, a subsidiary of Freedom Newspapers Inc., stopped withholding union dues when the contract ran out in 1983. Freedom Newspapers is a right-wing company which, as libertarians is against compulsory membership to any kind of organization. Libertarians also believe

that government is a remedy for nothing. The union which had represented the workers has been urging viewers to "Switchoff 6."

Dave Nieman sent an article from the Buffalo News (which also includes news about people), about WKBW-TV, ch. 7, another of the Capital Cities stations for sale. Unlike the Detroit station, this one is a better candidate for sale to minority interests. And among those interested in the station is C.J. Simpson. Elsewhere in Buffalo, WNYB-TV, ch. 49, not yet on the air, is being sold by Bison City Television to the Television Corporation of Buffalo. Dave says that they haven't even begun construction of the transmitter tower yet.

Jim Pizzi sent an article from the Lubbock Avalanche-Journal (which reports other earth shaking events as well), dated 8/3/85. "Lubbock's newest television station, Channel 40, affiliated with the American Christian Television Service, began operations this week to bring 'positive localism and upbeat family shows' to the city...." "...the 24-hour new station will try to develop programming that reflects Lubbock in a positive way, with emphasis placed on city events and upon positive Christian-values shows through the parent affiliate. 'Sex, violence, abusive humor and adult drama will definitely not be included in our programming.'" That leaves out football games. "Channel 40 is a licensed, non-profit, low power UHF station that will transmit 24 hours a day at 1000 watts of power from atop the Metro Tower in downtown Lubbock. Service will be limited to the Lubbock area. To receive Channel 40, Lubbock residents can turn to the UHF reception frequency, 'U,' and then turn to dial number 40. For good reception, viewers in most areas will need a UHF 'loop' for their direction antenna."

In a newspaper editorial also sent in by Jim, the writer expresses his opinions of the proposed channel swap between commercial and noncommercial stations. "If the public stations succumb to the illusory temptations of the get-rich-quick scheme, they will have irrevocably undermined the painstaking, decades-long effort to provide the nation's viewers with high-quality television programming."

Jim adds, "I haven't seen KNAT-23 in a couple of months and they aren't listed anymore in the (Albuquerque) newspaper, so I guess they went dark. KNMZ-2 was the probable cause. They use KNM2 as a logo. K40AN is on in Lubbock. The signal here is poor to fair normally but good with morning & evening tropo enhancement." More LPTV mysteries in the Texas area. Jim records a ch. 18 LPTV with ACTS, about 150 to 250 miles ESE of Lovington. Also, a channel 44 xtr in eastern Kansas or southwest Missouri repeating KZKC-62. A channel 52 translator (not K52AN in Elk City) in southern Oklahoma repeating KMG-34. A ch. 53 xtr, maybe in Rudoso, NM, repeating KOB-4 or KSWS, ch. 8. Channel 61 xtr in southwest Oklahoma repeating KOKH-25. A ch. 66 xtr also in SW Oklahoma repeating KGN-34. The ch. 18 xtr was definitely not K18AL in Sulphur Springs, TX. Jim also asks if KDCC, ch. 18 in Midland, TX, on yet. Not that I know of.

If anybody has any ideas on those translators, contact Jim.

Chris Hanley reports that WLXI-61 had been bought by a local developer who wants to change its format from rock/country videos to some other undisclosed format. "Most likely...standard UHF rot," says Chris. "Note to Ed Shepherd: I get WHKY-14 during DX season frequently but badly. The real trick for me is logging WTVI-42 Charlotte." WUNG, ch. 58 in Concord, NC, is now operating at its new power and is identifying as Concord-Charlotte. The recorded sign-off voice mentions only Concord.

Several articles from W.R. McIntosh. From the Los Angeles Times, 7/24/85, an article on an appeals court decision that declared the FCC's "must carry" rules unconstitutional. The National Association of Broadcasters is taking the issue to the Supreme Court, hoping to reverse the decision. Otherwise, the decision would have a major effect on the broadcasting and cable industries. The rule requires that cable operators carry the signals of all broadcast stations within 35 miles, even if some programming is duplicated. As a result of this rule, many subscribers have been deprived of some of the satellite cable services. This decision could result in reducing the viewership of some television stations, particularly the public television stations and noncommercial UHF stations, as well as increasing the viewership of cable-only networks. The court decision held that the FCC rule infringing on the cable operators' First Amendment rights by limiting their editorial discretion. Also, the rule totally ignored cable subscribers. The FCC and the broadcasting industry view the must-carry rule as assuring local program service in areas where over-the-air TV reception is difficult. The cable industry views the rule as a way of protecting broadcasters from competition.

The next article updates Dr. Gene Scott, pastor of Faith Center, which owned several broadcast stations until the FCC took them away. "The church lost its license to operate Channel 30, now called KAGL, after a long-running dispute between the FCC and Scott over the federal agency's demand that Scott turn over the financial records to FCC investigators. Irregularities had been charged in his management of the station, but none of the accusations of financial mismanagement was ever proved. The dispute over the licenses of Channel 30, a San Bernardino FM radio station and TV stations in San Francisco and Hartford also owned by Faith Center was strictly over his refusal to turn over records to the FCC." "But he's put together a new network by buying time on some stations—usually in the middle of the night—selling satellite receiver dishes to his followers and persuading cable companies to run his programming 24 hours a day on closed circuit. The network now includes 18 over-the-air stations and cable outlets in 15 markets." "Scott has rebuilt his TV network into a greater force than it ever was,

and, in the process, he has become a popular late-night TV attraction. In fact, in Dallas and Reno, two of the markets where his 'University Network'...appears via satellite, the latest ratings show Scott to be at least as popular as NBC's David Letterman.... Occasionally, he blows away ABC's Ted Koppel...." "In New York he's carried on Spanish-language WNUJ-TV, Channel 40 (sic), where his is the only program aired in English." (WNUJ is 47.)

From the Los Angeles Times, also sent by W.R. McIntosh, an article dated 7/28/85 about the demise of KNAT, ch. 23 in Albuquerque, NM. "What happened to Channel 23? When KNAT-TV, an independent television station...went off the air at the end of April, few people outside New Mexico noticed. Like scores of other independent stations around the country, stations not affiliated with any of the Big Three commercial networks—KNAT had a relatively weak signal and an undistinguished program schedule that had attracted relatively few viewers and fewer advertisers in its brief three-year life." "At a time when some independent TV stations are commanding astronomical sales prices and revenues surpassing network-affiliated stations, KNAT failed miserably." "There are going to be more independents going under or broke in the next five years than in the history of independent television," Greg Mathanson, vice president for programming of Los Angeles-based Golden West Television, told a recent luncheon.... "Across the country, the number of independent stations has grown from 121 in 1980 to more than 214 today. The Washington-based Assn. of Independent Television Stations estimates that another 25 may go on the air within the next 12 months. The association expects about 300 independent stations on the air by 1990. Like Albuquerque's darkened KNAT, 181 of these new stations are...UHF.... Many of these UHF stations have profited from a 20-year-old federal regulation requiring local cable systems to carry signals of smaller over-the-air stations. Two weeks ago, however, a federal court declared the regulation unconstitutional.

Larry Fuss comments on my question about the noncommercial status of WNYC-TV, ch. 31 in New York City. "It is apparently licensed as a non-commercial, even though on a commercial channel." He also adds on the June column, "The Raleigh, North Carolina listing (consolidated hearings—wbf) didn't show Charles Ray Shinn. He was the first applicant to file for channel 50." On the August column, he adds some missing data. "The info for Salt Lake City Family Television Inc. is 8 kv at 3881 feet (Channel 13). Gemini Broadcasting of West Virginia...166 kv at 1219 feet (Channel 11)." That's in Charleston.

NEXT MONTH: More from Larry Fuss, Bruce Elving, W.R. McIntosh that I didn't have room for. Plus lots of news about stereo TV, public UHF station channel swaps, Canadian news from Walter Patton, and much more.



FM NEWS

Bruce F. Elving, Ph.D., Editor
Box 24
Adolph MN 55701-0024

New FM Stations, Translators Granted

AK Galeana AFRN *80.5 \$ (baurifal), 300 watts
AK Glenhol K221BL *82.1 (KUAC 104.7

Fairbanks AK translator)

AK King Salmon (12 mi ESE Naknek; 80 mi ESE

Dillingham) AFRN *91.7, 8, 300 watts

AK Palmer K208BC *88.5 (KSKA 91.1 Anchorage)

AK Seward K201AD *88.1 (KSKA translator)

AK Sitka *100.1 KMTE ethnic, listed to "Armed

Forces Radio," but believed run by Mt. Edgecumbe

(Indian) High School, Bureau of Indian Affairs, 10

AZ Flagstaff K282DF 106.3 (KODAM FM 96.7 Wms)

AZ Little Acres K282CI 106.3 (KJFM 103.9 Pay.)

AZ Peoria 103.5 85000 h.v.; 2220'

CA Bishop K269CZ 101.7 (KHOP 104.1 Modesto)

CA Danville, San Ramon KYUU 98.7 San Francisco

CA Fort Bragg K282CJ 93.5 (KWNE 94.5 Ukiah)

CA Hornbrook K214AT *90.7 (KSOR 90.1 Ash-

land OR translator) (Tonopah NV)

CA Mammoth Lakes K280CJ 103.9 (KPAH 92.7)

CA Orinda K285CE 98.3 (K210-FM 92.7 Ridge-

crest CA)

CA Graegle K285CF 100.9 (KNXN 101.9 Quincy)

CA San Francisco K17S 95.5 105.3 (on-channel FM

booster of KITS 105.3 San Francisco), 10 watts

CA Walnut Creek K228CI 93.5 (KYA 93.3 San

Francisco translator)

CO Breckenridge K287CS 98.3 (KVMT 104.7)

CO Lake City K228CJ 93.5 (KVLE 102.3 Gunn.)

CO Dillon-Breckenridge K237BI 95.3 (KGMJ

101.5 Eagle CO) (Spring)

CO Durango K286DF 107.1 (KROS 106.3 Pagosa)

CO Glenwood Springs K257CP 93.3 (KVMT Val)

CO Rome & La Jara K240BJ 98.9 (KOB-FM 93.3

Albuquerque NM)

FL Key Largo 103.9 2300 h.v.; 340'

FL Key West WKRY 92.5 2000 h.v.; 110' (Pierce)

FL Port Charlotte W249AA 97.7 (WSOR 95.3 Ft.)

FL St. Petersburg-Tampa WFTT-FM *91.7

3000 h.v.; 150' Community Radio (Kahului)

HI Kahului-Wailuku K257CO 98.3 (KHUI 98.9)

HI Bonnet Ferry 92.1 3000 h.v.; 50' (burg)

ID Pocatello K285CO *104.9 (KRIC 100.5 Rex-)

ID Sandpoint *90.1 30 h.v.; 2935'; Ed. Found.

LA Decatur 100.9 3000 h.v.; 300'

LA Lake Charles K269DA 101.7 (KYKR 93.3

Port Arthur TX) (Lawrence)

MA Wrentham W269AH 107.1 (WCGY-FM 93.7)

MI Harbor Beach WWTM 106.5 3000 h.v.; 330'

MI Grand Marais K220BI *91.9 (KDNW 90.5

Duluth, 1 watt—power reduced from original

application because of FCC concerns about

interference to KBJR (TV), channel 6)

MN La Crescent (serving La Crosse WI) W257AJ

99.3 (WISQ West Salem WI, also see "Dele-

tions?") (Minneapolis MN)

MO Paysonville K244CG *96.7 (KITS-FM 98.5)

MT Cut Bank K288DH 105.5 (KXEI 95.1 Hav.)

NV Ely K276CG 103.1 (KILA 95.5 Henderson)

NV Incline Village K217BA *91.3 (KNPR *88.7

NV Indian Springs K204AP *88.7 (KNPR 88.5

Las Vegas)

NV Pahump K204AN *88.7 (KNPR) (Vegas)

K244CE 96.7 (KFMS 101.9 Las /

107.5 25000 h.v.; 280' (Camden)

NJ Brigantine W207AB *89.3 (WKDN 106.9)

NM Clovis K228CH 93.5 (KOP 96.9 Odessa TX)

NM Grants K216AW *91.1 (KANW 90.1 Alb.)

NM Las Vegas K228AW *91.9 (KUNM 90.1)

NM Las Vegas 102.3 2700 h.v.; 290'

NY Coming W214AA *90.7 (WSKG-FM 89.3

Binghamton on air and DX ready with 1 w

NY Cortland W209AF *89.7 (WSKG-FM)

NY Ithaca W288AS 105.5 (WVBR 93.5 Ithaca)

NY Oneonta W219AG *91.7 (WSKG-FM)

NY Watkins Glen W215AB *90.9 (WSKG-FM)

OH Ashtabula W202AI *88.3 (WKSU 89.7 Kent)

OH Youngstown W219AF *91.7 (WCRF 103.3

Cleveland)

OK Cordell 99.3 3000 h.v.; 200'

OK Enid K272CF 102.3 (KOFM 104.1 Ok. City)

OK Sand Springs 102.3 1600 h.v.; 425'; a

Tulsa rim-shooter? (Toledo OR)

OR Lincoln City K288DI 105.5 (KCEI 107.1)

OR Myrtle Creek K244CF 96.7 (K8MC 94.5

Eugene) (Binghamton NY)

PA Mansfield W215AC *90.9 (WSKG-FM 89.3)

PA Friesland-Hazlet W202AH *88.3 (WKDN

106.9 Camden NJ) (Warminster PA)

PA Sellersville W204AD *88.7 (WCSD 88.3)

SC Folly Beach (serves Charleston) 97.7 3000

h.v.; 330' (tonville MN)

SD Aberdeen K292DG 106.3 (KCGN 101.5 Or-)

SD Yankton *90.7 520 h.v.; 5430'; g. Great

Plains Educational Trust

TX Bowie K221CG 92.1 (KMGC 102.9 Dallas)

TX Cleburne K285CQ 104.9 (KYKR 93.2 Port

Arthur)

TX Conroe K285CR 104.9 (KYKR)

TX Huntsville K252CG 98.3 (KYKR)

TX Kilgore K232CA 94.3 (KMGC 102.9 Dallas)

TX Midland 106.7 10000 h.v.; 610' (Dallas)

TX Mount Pleasant K221CF 92.1 (KOZY 105.3)

TX Macapodoches K237BZ 95.3 (KYKR 93.3)

TX Palmetto K280GL 103.9 (KWRW 97.7 Rusk)

TX Santa Fe K282-28; 95-04-37; approximately

12 miles SSW Houston) *90.5 8000 h.v.; 510';

g. Open Bible (Foundation)

TX Weatherford *89.5 370 h.v.; 205'; g. Betsy;

LA Natchitoches K280CC 103.9 (KAJN 102.9

Crowley LA)

UT Bountiful 99.5 30000 h.v.; 3560'

UT Delta K272BT 102.3 (KSSD 92.5 Cedar Cr.)

VA Bassett Forge W296AM 107.1 (WHPE 95.5

High Point NC)

VA Winchester *91.7 100 h.v.; 1150' Alpha Ed.

Foundation, g. This grant has the potential

to serious conflict with earlier grant of 91.3

in Winchester VA to WTRM.

WA Cheney 101.1 10000 h.v.; 625'

WI Ashland K218AR *91.5 (KDNW 90.5

Duluth MN) (Laramie)

WY Sinclair K206AJ *89.1 (KUWR 91.9)

PR Capua WZNT-1 93.7 10 w (WZNT San Juan

on-channel booster)

PR San German W10A-1 97.5 10w (W10A

Mayaguez on-channel booster) [known.

BC Kelowna CILK 101.5 h. power, height not /

MEXICO Monterrey XHMF 104.5 100000 h.v.;

1970; "shouldn't be deleted—they are still

on the air."

NEW DEVELOPMENTAL STATION

TN Crab Orchard 95.7 130 watts; Sandra J.

Lewis. To test research in audio subcarriers; I

may list this in the next "FM Adm."

Facilities' Changes Granted

AL Birmingham WMLJ 96.5 1025' (100000 h.v.)

AL Jackson WHOD-FM 104.9 2000 h.v. (380')

AL Mobile WBLX 92.9 1555' (100000 h.v.)

AK Homer K252CF 98.3 (from K265AG 100.9)

AK Port Lions K220AU *91.9 (not K290AU

105.9).

AK Shemya AFSN 90.5 (200'), monaural

AR Mountain Home KPFM 105.5 1300 h.v.; 475'

CA Chico KCHO *91.7 (from 91.1) 7700 h.v.

(1220') (h.v.; 1015')

CA Red Bluff KRBO 102.7 (from 102.3) 12000'

CA Ridgecrest K232AM 94.3 now h. KRTH

101.1 Las Angeles (not KKHR 93.1 L.A.)

CA Salinas K237CA 95.3 (from K240AH 95.9)

CA Soledad K240AC *95.9 (from Greenfield CA; seeks 91.7)

CA West Covina K80B 98.3 2300 h.v.; 330'

CO Glenwood Springs K217AZ *91.3 (from

K218AN 91.7)

CO Morrison KWBT *91.1 100000 h.v. (1180')

CO Yoti KVMT 104.7 100000 h.v.; 450'

DC Washington WDDC-FM 101.1 22500 h.v.; 760'

FL Fort Lauderdale WHYI 100.7 1005', direc-

tional (100000 h.v.) [1990']

FL Fort Myers WHEW 101.9 adds v. 100000 h.v.;

FL Bradenton WJIS *88.1 395' (100000 h.v.)

GA Gainesville WYAY 106.7 1160' (100000 h.v.)

ID Lewiston KATW 101.5 850' (100000 h.v.)

ID Rexburg KKQT 98.3 300' (3000 h.v.)

IN Kendallville WBTV 93.3 50000 h.v.; 490'

IN Shelbyville WENS 97.1 23000 h.v.; 740' [90.5]

KS Junction City K208BD *89.5 (from K213AN /

NY Somerset WDCI *89.7 (not 89.3; on air 89.7)

ND Westminster WGRX 100.7 16000 h.v.; 860'

MA Boston WUMB *91.9 1702' (1000 h.v.)

MA Northampton WHMP-FM 98.3 940 h.v.; 360'

MI Birmingham WMJG 94.7 13500 h.v.; 245'

MI East Lansing WKAR-FM *90.5 adds v. 18000

h.v.; 895'

MI Monroe WEJY *97.5 (from 89.5) 7 watts h.v.;

MI Marshall KBJJ 107.1 240' (3000 h.v.) On Air

NE Omaha K288CL 105.5 (from K285-104 99)

on air 105.5; 104.9 application dropped

NV Reno KRND 106.9 2215' (70000 h.v.) [100.9]

NV Stateline K269DB 101.7 (from K265AE /

NJ Upper Montclair WMSC *101.5 86 w (round-

ed to 1 watt) h.v. (690?)"they mention .86 watt

at sign on and sign off"

NM Socorro KHBK 92.7 60 h.v.; 1910'

NY Batavia *90.7 920 h.v. (130')

NY East Rochester W288AR 105.5 10 watts—1st

10-w translator known east of Mississippi R.I

NY Poughkeepsie 92.1 1450 h.v.; 440'

NC Farmville WRQR 94.3 1900 h.v.; 405'

September, 1985

to be listed as +++. But in order to work properly, you would probably need to use fixed (as opposed to proportional) spacing in your station directories. There are no doubt other ways to accomplish what I have suggested above, and it will be interesting to see what type of format you eventually come up with. I received two other comments to my proposed SCS data categories—both negative. Veteran SCA listener John Ebeling says "I don't know about the proposed SCS data categories—I think it's hard, if not impossible, to distinguish between U, X, Y and Z as outlined. I know I could never tell the difference, let alone report it properly!" Another reader who does not want his name used says DXing should be fun, and he has known of hobbies that have killed themselves by having people get too picky with details. I tend to agree with most of this criticism, and it would save me work, too, if I at least simplified my proposal. My thinking now is to have only three data categories: X (as now, for the majority of data); Y for pure tones or telemetry (distinguished by low frequency humming or a whirring tone repeated every 1-2 seconds, or a chirping sound), and Z, frequency shift data (sounding like a machine gun). These changes probably will not come into effect for the 10th edition "FM Atlas," as I have a massive project just getting the existing data into shape for key-punching. Your continued input on this subject will be appreciated.

Reader Mike Ager sent an article on how Indesys, Inc. plans to use SCA nationally to transmit messages to personal computers. It says customers "are assigned a unique address, and their receiving equipment collects only those messages addressed to it," with only the receiver addressed able to decode the messages. ABC-FM stations are expected initially to have this form of data (most likely to be coded "X," not "Z"): WPLJ, KLOS, WLS-FM, KTKS and KOMA. Indesys is located at 2425 Garcia Ave., Mountain View CA 94043.

From Alaska, Rod O'Connor says Naknek's KTTH 100.9 is not yet on the air, and the "M Street Journal," published by Pete Nolan [PO Box 540381, Houston TX 77254—write for special DXers' subscription rates], has in it that KTTH is requesting an extension for its construction permit. "It may be a repeater for KDLG 670, as is KUHB St. Paul [91.9] AK. KJZZ 101.1 Kodiak transmits from a 'poor location, the same tower as the KVOK-560 AM tower. Although the listing shows as 56' in your May '85 column, it shows how inaccurate HAAT figures are in mountainous areas. Actually, the antenna is about 150' above ground. Two reasons for lousy coverage. First, the surrounding mountains block the signal around town and out to the Coast Guard base, and secondly, for 4300 watts, I personally would use more than just a 2-bay antenna. In comparison, KMXT 100.1 with only 3000 watts, with a 3-bay Jampiro antenna centrally located in the city puts out a far better signal. [Your listing has them as only 3' HAAT, although we are on a 50-foot tower, atop a 150-foot hill, but still shadowed by a 1300' mountain to the north.] That's why I personally do not put much faith in HAAT here in Alaska or other mountainous areas, while over most of the rest of the nation it is an accurate indicator. . . The Alaskan Forces Radio Network has two networks. Their mostly AM network has only 1 FM outlet so far. . . Shemya 90.5. The present AM outlet on 960 here at Kodiak Coast Guard Base (50 watts) is to be replaced with FM but timetable has been moved from this summer to sometime later this year. I have included two schedules of their networks, which should be of interest to you. A real top-notch outfit, and most impressive. The FM network is all Harris automation and state-of-the-art. Something to drool over. The AM network is live and tape assist. KENY 101.7 Soldotna-Kenai still using those calls, as it is a satellite of KCTL-FM Homer. Not yet using KPEN calls. I believe KJBA 100.1 is on the air, although I haven't been to Bethel, I did see an ad for a statewide program which was to be broadcast over KJBA.

Good DX to you in Minnesota. "KIQQ 100.3, one of the four hard-core top 40 rockers in the Los Angeles market, officially died," says an article sent by W. R. McIntosh. "The call letters remain the same for the time being, according to new general manager Tom Mosher. . . We're still KIQQ, but the format we're now referring to as 'Lite 100', Mosher said. . . That leaves the Top 40 market in Los Angeles to teeny-bopper KKHR-FM (93.1) and the more adult-oriented Top 40 KIIS-FM (102.7) and KMGF-FM (105.9). The ax fell after several years of listener ratings that declined as steadily as they were climbing at KIIS-FM. In the most recent quarterly Arbitron Ratings, KIQQ had dipped from 15th to 25th in Los Angeles, with only a 1.5% share of the L. A. listening market. Asked if the dismal ratings had any bearing on the decision to change formats, Mosher said: 'Well, let's say that if we had a 10 share in the Arbitron, we wouldn't

FCC-FM

have changed.' " On the opposite coast, Richard Steinberger sent a clipping on a slogan war that is affecting Boston's WMJX 106.7, using the phrase "Soft Rock—Less Talk," while WLYT 92.5 Haverhill has a phrase (not necessarily its nonID) "Lite Rock—Less Talk." The case is scheduled for court, with Michael Berg of the NAB in Washington quoted as saying the dispute could prove important in the highly competitive adult contemporary field, where formats and methods for attracting listeners are similar. "There is increased competition in the marketplace, not just from other stations, but from home video and things of that nature," he claimed, "and the FCC is playing less of a role, moving toward deregulation."

Richard E. Wood, Ph.D.
P.O. Box 5074
Hilo, Hawaii 96720
U.S.A.

—sent word that KFHS 97.9 Hilo was to have come on the air Aug. 3, after several years of holding a construction permit. It is Billy Graham-affiliated, and has "magnificent handcrafted studio cabinet work." Richard sent word that an application for 99.1 had been filed at Waimea HI by one Karen Gross. It is an upper-class mountain community of 4,000 with prep schools and the fastest-growing community in the U. S. in the 1970s (Kailua-Kona area). "Station should be a commercial success in areas where Honolulu and Maui stations don't penetrate." A final article he sent concerns a bride and groom getting married on the air over WPDH 101.5 Poughkeepsie NY. After the ceremony the station reportedly was flooded with callers wondering if that was for real, and it was!

Jim Pizzi sent an article about an FM station, KCBI-FM Dallas, which has embraced shortwave, much as WRNO-FM New Orleans has. KCBI shortwave was to have begun as of now, beamed to Europe with Christian programs, with later broadcasts to South America. No frequencies were given.

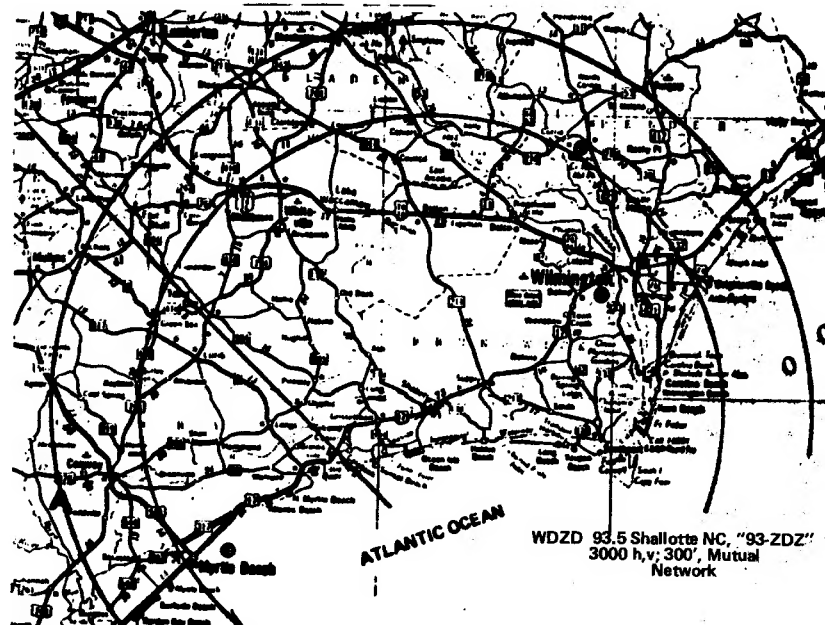
Ralph Strobel has seen the first published information in his local paper on the new 104.9 Muncie station, getting local zoning approval for a 360' tower. He sent a logo for WDDZ 93.5 Shallotte NC, which I intended to use earlier this column when I mentioned that station, and a coverage map which may appear elsewhere.

A most unusual commercially-licensed FM station is 103.1 WIOE Huntington IN. Says Michael Roehm. "They play rock like top 40, rock and progressive rock. The thing about this unique station is that there are NO commercials EVER, or news or weather. Just music and a station identification every now and then. My sources tell me the reason is because WMEE 97.3 Fort Wayne had more listeners than WOWO (AM), so WOWO decided to make a new station to compete with WMEE for the sole purpose of lowering its ratings: 103 WIOE Commercial free. It makes no profit; it simply keeps WMEE's ratings down." I have not checked to see if WIOE and WOWO share ownership, but if this report is true, it is a very unique

"SCA is neat, and it's coming more and more into view as a potential money-making device for otherwise-hard-put FM stations," is the way a plug David Newkirk started in his publication "Enjoying Radio." The article also says: "Well, to make a long story short, Bruce Elving, perhaps the first FM DXer to log 1,000 different FM stations from one location, set up a business manufacturing and selling SCA adapters and adapter kits, as well as carrying radios pre-modified with said SCA devices. The only reason I don't have an up-to-date copy of the Atlas is that I'm such a stick-in-the-mud that I don't listen to much FM relative to shortwave. I do, however, have a couple of Bruce's least-expensive SCA adapter boards. . . No one else is as into FM as Bruce. The Atlas itself is a . . . but if you're already an FMDX/traveler, you likely already have it. And what are you hearing on SCA? Do you listen to FM via meteor scatter? Tropo? Is E-skip worth it where you live? . . . The above sent by Paul Hancock, who was inspired to buy two of my kits. The EIT-SCA adapter "really works great compared to EIT-II in the G-E Superadio" comments Jay Mathisrud. Elving Science is close to a breakthrough whereby I expect to have a 92 kHz version of the EIT-I adapter. Watch for it in our new catalog or in our newsletter.

And speaking of newsletters, much of the format info in this column comes from Pete Nolan's "M Street Journal," noted earlier in this column.

Both the public broadcasting paper "Current" and the magazine "Religious Broadcasting" had articles addressing the FCC's policy on religious use of public radio and TV



Edwin H. Armstrong
Owner and Operator
Frequency Modulation (FM) Broadcast Station
W 2 X M N
on the Palisades
ALPINE, NEW JERSEY

December 30, 1947

Radio Station KALW,
Board of Education,
Unified School District,
San Francisco, California

Dear Sirs:

Your transmissions are frequently heard here at Alpine, New Jersey. It would be greatly appreciated if you could send me a copy of your operating schedule.

Thanking you in advance for your cooperation and courtesy,

Very truly yours,
Perry H. Osborn
Chief Engineer

Approved
2-10-48
CH

Major Edwin Howard Armstrong was the developer of Frequency Modulation (FM). W2XMN was the first full-scale experimental FM station broadcasting regularly.

KALW
2905 21ST STREET
SAN FRANCISCO,
CALIFORNIA 94110
(415) 648-5706

channels. The immediate case was an application by Way of the Cross, Inc. for a reserved TV channel (article does not say which one; probably Bill Fahter knows). The FCC sidestepped ruling on the merits of the religious issues, and instead found the other applicant more qualified because of having more local people on its board. Article goes on: "On the FM side, stations in the reserved band are allowed to describe their format as principally 'religious'—though some stations which are principally religious choose to describe their formats as 'educational'." The article noted some 170 ed-FM stations are primarily religious, about 40% of which have been licensed since 1980.

"Other companies, such as Family Stations, Inc., clone applications in their own name for large numbers of available frequencies. Family presently has some 50 applications for educational FM channels pending (out of more than 150 pending applications for all types of broadcasting frequencies). . . Family originally planned to license 'hundreds of translators' and feed them by satellite, but FCC rules forbid that arrangement. Then. . . Family began applying for 100-watt (and higher-ed.) stations which could be fed by satellite and could be used to feed translators in turn. . . A rulemaking to limit the number of reserved channels that can be granted to a single licensee has been pending before the FCC since 1978, with no action taken." The Religious broadcasting magazine points out that the FCC is deregulating things, and increasing the number of radio station a single owner (or married owner, for that matter) can have, and that it is unlikely that ownership restrictions in educational FM would have much chance.

In a commission challenge to the renewal application of WAMZ-FM #92.1 Zarephath NJ, the FCC found Pillar of Fire qualified to operate WAMZ-FM, even though very little local programming, such as news, was aired. Nationally-syndicated programs and public service announcements were found to be adequate for meeting local needs.

I am switching to this elite Smith-Corona typewriter because of what a reader said who struggled through my July column. In option-ist now has a copy of that column as a severe test of difficult reading material. With four typewriters in the house, I should have one that should produce good VUD copy.

A reader sent a copy of an article in the Sept., 1985 "Stereo Review" concerning the FIX device that is said to allow full FM stereo reception out to the mono distance for a station. FIX circuits would add just a few dollars to the cost of a radio, and the broadcast equipment would also be inexpensive. The article does not say if the system would be compatible with existing stereo decoders in radios. On p. 4 of my 9th edition is mentioned a WJZ 620 Knoxville TN leaving the air. According to a newsletter

Kermit Reid received from the Radio Bible Class, Grand Rapids MI, WRJZ 620 is mentioned as carrying the program. Perhaps they are on the air again, muses Kermit.

The Capital Cities-ABC merger is resulting in the sales of the first radio stations. Los Angeles' KZLA FM and KLAC AM are going for \$43, and KSRH Houston for \$32.5 million to Malrite Broadcasting. The article sent quoted KIIS general manager Wallace Clark as saying KIIS-FM, the top-rated station in Los Angeles, would command "Well over \$100 million" if it were for sale.

From Oklahoma, it is reported that KQMA Cwasso's 93.5 translator is operational in central Tulsa. KUGS #99.5 will soon be 50 kw, 106.5, transmitter Cowetta OK. KGMX #91.3 Claremore OK now 2200 watts at 365'.

Canada's Steve Tura thinks CJCR FM 97.7 will get to keep its protected allocation, and that Toronto's 97.3 will be assigned farther inland, such as to Richmond Hill, where CFM could get it as a religious station. "I hear that Peterborough's CBBP on 103.9, which gives trouble to Rochester's WCKX, will be assigned 103.7. . . WCKX in Erie will not allow 103.7 in Toronto. . .

The CKQT (94.9 Oshawa) CN tower proposal was turned down due to objections from CKDS 95.3 Hamilton. . . It is hard to keep track of the CKTC because it changes its mind until the final decision is made."

Jim Korn sent some CA format information, and an interesting copy of a KALW #91.7 San Francisco coverage map and a copy of a 1947 letter from WZMN Alpine NJ, Edwin H. Armstrong's station. The letter reported frequent reception of KALW in NJ and requesting a program schedule. This must have been on the old FM band, as KALW literature indicates it operated in the 42-50 MHz range until 1950, probably running dual frequencies 1947-1950. He also sent an interesting brochure on the FM and TV translators in China Lake-Ridgecrest and Inyokern CA. The FM translators all transmit vertically-only. They are located on Laurel Mountain to the south. Jim says he may not be attending any radio club conventions for a while, as he is saving money for a possible overseas vacation next year.

Changes in the works at WFTN 93.5 New Rochelle NY? Bill Mienajedly has heard heavy metal after midnight some nights and Spanish programming some afternoons! Bob Baker reports that, on a recent trip, he did not hear K249BJ #97.7, an NPR translator in Fairmont; but I think that is a new one and it has not started broadcasting. A guide he sent, published by Minnesota Public Radio, rather immodestly describes NPR as "the best public radio system in the nation."

An article Rod O'Connor sent said some opponents of new Christian FM station are criticising its call letters—KXGD (see p. 14 March 1985 VUD), Wasilla AK. They charge the station is trying to commercial-

FCC-FM

ize God. In another call-letters issue, KFRZ-FM 106.9 Brigham City UT has had its previous grant of calls KSEX set aside. No indication if this results from local pressure to the FCC from KFRZ-FM's predominately Mormon constituency.

Dave Nieman sends information on the Buffalo area, with an article on Buffalo's radio ratings. Seems a lot of people are tuning out of Buffalo radio altogether, with many teens especially favoring CILQ 107.1 out of Canada, with dissatisfaction with the state of album rock in Buffalo, with WGR-FM mellowing from its former incantation as WGRQ.

The "sickie" translator of KDNW #90.5 Duluth MN (VUD, June 1985, p. 9) seemed that way to John Ebeling, who was driving sideways to its beam, which is horizontal only from a point 3 miles west, aimed at the city. "Both receive and transmit are located on top of Harvester silos," comments manager Paul Harkness, who verified my 32-mile reception of the one-watter at #88.5 off the side of its beam. He expects K218AR 91.5, 1 w, Ashland WI to be on by Oct. 1, and the new K220BI 91.9 to be on Dec. 1, Grand Marais MN.

Another station verifying for me was KRPR #89.9 Rochester MN. Right after I heard them, in late July, they left the air, and "will not be in operation again until Sept. 5 when our school year begins again." Those of you into high fidelity may want to tune in the show done by a former graduate-school friend of mine, John Sunier in Kentfield CA. It is "Audiophile Audition," carried over NPR at 2 p. m. eastern time Sundays. It includes compact discs, direct discs, 45 rpm 12-inch discs, audiophile tapes and special programs on bi-natural sound, as well as other subjects. Some 100 stations are said to carry the program, now in its sixth month.

"FM sets in buses will furnish riders in Scranton and Wilkes-Barre PA with music and news from station WIZZ. Installation of the receivers has already been started. The arrangement is a commercial tieup between the station and the bus company," from Radio-Craft, July, 1948, and sent by John Ebeling.

Former WTFA chief editor Clarke Ingram writes from Mesa AZ, where he is assistant program director of KZZP-FM 104.7, saying he stopped by Kearney and tried to call us when we were on a MN house-hunting trip in early June. His home phone number is (602) 926-8570, and AZ maintains Mountain Standard Time the entire year.

WCTS #100.3 Minneapolis, which once claimed that Sakan was causing interference with its signals when several stations went to the downtown IDS Tower, now has been denied use of a lake property north of town to build its tower. The court has ruled the Dept. of Natural Resources can stop the station from using the lake to build a radio tower. The tower would replace a 460' one that fell during a 1980 storm. Since then the station has used a 130' antenna at the seminary in north Minneapolis. I find KLYF comes through the WCTS signal quite often, now that WCTS has such a poor signal; KLYF is in Des Moines IA.

Sunnigroup, Inc., in TN reported a profit for the first half of 1985 (with losses each year 1980 through 1984). The profit resulted from the sale of WYHY Lebanon-Nashville TN and WSEV (AM) and WMYU (FM) Sevier-Knoxville TN. It operates WERC (AM) and WKXX (FM) Birmingham AL and is looking for more radio stations to acquire.

7 am-noon ELT daily, originating out of WGBH #89.7 Boston MA. "I heard it on Vermont Public Radio and WAMC Albany NY, 90.3," and he's heard it is also on Maine Public Radio. "Taking note of Ernie Cooper's and Nick Lombardi's comments which appeared above mine in the June '85 VUD, combine the two and you have a good idea which I would certainly endorse: put the formats in the by-frequency column and networks (along with SCA) in the by-state column, with neither appearing in the other column. Is that possible? [I see no advantage in merely transposing data from one sec-

W. R. McIntosh has not had much time for DX or to play with SCA, as he now is playing with a new VCR. It's "fun." On his coat of arms, those are mountain cats, not lions. And I hear where we moved, in northern MN, are cougars or mountain lions!



THE MACKINTOSH

Larry Fuss sent three letters, so I'll summarize: In Camden AR the permittee of the new translator is not either of the two applicants for a new station on 237A. One of the applicants is Y95 radio (a client of mine) and the other is a guy who owns KLVU-AM-FM in Haynesville LA. When 237A cranks up, the translator goes bye-bye! . . . I noted your comments on "I don't know why WSB-FM is gripping" and just had to respond. Since I work fulltime for WSB-FM, I am biased, but I can tell you why WSB is upset. Three years ago when WSB-FM "The Great 98" dropped their elevator music format and went A/C, they adopted the "99FM" slogan (the station is located at 98.5). At that time, WRMM was WLTA, and were calling themselves FM-100 (they're on 99.7). They later switched to WRMM, "Warm 100." Within the last year they decided they better do something about their sagging ratings, so they started calling themselves WARM 99.7. At about the same time, they started making a lot of references to "digital radios" and to the fact that they were playing "digital compact discs." . . . With the entry of WFOX into the Atlanta marketplace, WSB-FM finally decided to spend some big bucks on promotions. For the Spring Arbitron survey, we gave away 10 Pontiac Fieros and distributed 1.3 million "WSB-99FM" bumper stickers throughout the metro area. WRMM figured "gee whiz, if we change our slogan to 99 we'll get half credit for any listener who writes down 99FM in their diary." A very sleazy way to improve your ratings. WSB was using "99-FM" almost exclusively up to that point, but has since been using the call-letters too (WSB-99FM) in an attempt to eliminate some of the confusion that Luke-Warm has caused in the marketplace. Yes, they are 99.7, but what they have done is sleazy and underhanded, not to mention stupid. They spent hundreds of thousands of dollars building themselves up as "WARM 100." Changing their identity to 99.7 and now to 99 is idiotic on their part. Their radio station is dull, boring and lifeless. All they do is take up a spot on the dial. It's a shame, too, because they have the best FM signal in Atlanta (they're on WTBS' tower), but they don't know how to use it. Larry then comments on the June VUD. I, too, noticed the "Audio" magazine pictures of "FM antennas" and sent them a letter telling them that what they were picturing was not FM, but microwave antennas. I've been watching for a correction, but I doubt that we'll see one. . . In the August '85 "Formats/Networks," you list WGRG in Greensboro GA as soul. I listened to them for about an hour as I was driving to work yesterday morning and it was definitely adult contemporary. Perhaps they are soul at night, as a lot of the small-town Class A around here seem to be. They were also using a strict "G-104" nonID. [Let's paint them as for now-b.c.]

Format: KTKL 106.9 Casper WY will be [glospel] Richard E. Berg-Andersson sent formal information from the Adirondack area where he vacationed, but was disappointed by the regular reception there and the DX, due to the influence of the mountains and from cable leakages. He says many New England NPR stations pass up "Morning Edition" in favor of "Morning Pro Musica," a classical music program hosted by Robert J. Lurtsema,

tion of the book to another—ed.] . . . I still think networks are important to include. Maybe I'm the only one who does this, but I tune in Armed Forces Radio on shortwave on a semi-regular basis and am familiar with most of the network correspondents in the "hot news spots" of the world. If I hear a network correspondent on a local newscast while DXing it helps to know which stations carry that network, even though admittedly FM is less network-oriented than AM."

(Contributors to be listed next month)

EASTERN TV-DX

William J. Drees
Billis St. H.A.F.A.
Lockport NY
54216

September 1985

Rich Wertman: 315 Pine St., Lockport NY 14094 EDT

Equipment used: Hy-Gain HG-52 SS tower, HD-73 rotor. P-7 UHF dish at 65' with CP-4800 amp, stacked #1473 hi-band Ch yagis at 57' with Archer #151124 amp, stacked #1126 ten element low-band yagis at 54' with AC-9260 amp. All above fed by .500 hard line, except for last 60' on the tower which is RG-11U. Also Finco P-7 with CP-4800 on 15 ft. tripod at 60' on mouse fed with RG-11U, with CM rotor. Zenith BT120Y 12" b&w, SL-2300 Sony VCR, Samsung 12" b&w, Panasonic 19" color; #7206 Hi-Q trap for UHF, DA-8150 indoor amp. (when locals off)

Well, as most can tell, I've got my tower up. I've never been so pleased as now about any installation I've ever done. As I write this letter I'm watching intense Es on ch.2 & 3. This installation was quite a challenge but everything worked out fantastic. However I'm finding out that low bands work better at 20-25' for Es. This helps keep local splatter to a minimum. I'm checking into a 20' Kohn tower for installation of these. It really gets to be a pain when you have to change the tower height all the time. I like keeping it at 50' for tropes. I got everything working May 12th and noticed tons of Es but couldn't I.D. anything. I never watched much Es before this installation. I think stacking the low bands horizontally really helped. Now I can kill channel 2 in Buffalo 20 miles away and watch Es right over them and ch.4 also 20 mi. away. I've seen Es right up to ch.6. I think anyone using a log periodic VHF or VHF-UHF in a crowded low band area (locally) should go to this method or they'll probably never see Es. When I had a log periodic up for VHF I only watched one Es opening. Now I've watched it almost every day since June 1st. Not all was recorded because of bad timing for me. Will have photos in Photo News of new installation and hope fully some good Es if they come out.

May 1985

13 Es 1830 KBTX-3 TX
14 Tr 1900 WPXI-11 PA
WQED-13 PA
Es 1930 CKCK-2 SA 1300
23 Es 1210 KSNW-3 KS
1215 WEDU-3 FL 1000
1230 unid-3; Muppets
in Spanish
1240 unid-4; thru local
1245 unid-3; Let's Make
a Deal

26 Es 2000 KSNW-3 KS
WBRZ-2 LA
KJRH-2 OK
27 Es 1200 KGEF-2 ND
1231 KOET-3 OK
1330 KXJB-4 ND
1400 KCNC-4 CO
1410 KDLH-3 MN
1420 KDLO-3 SD

May 1985

27 Es 1430 KEME-3 ND
1435 WCCO-4 MN
1502 KPRY-4 SD
1600 KOTA-3 SD
1930 WEAR-3 FL

June 1985

1 Es 1930 WBRZ-2 LA
1945 KATC-3 LA
2 Es WEAR-3 1800 FL
6 Tr 2300 Erie U's
excellent
Akron, Yo-
ngstown U's
2310 W65AJ (WXXI)
W62AS "

2320 WOAC-67 OH
2345 WCLQ-61 OH
WUAB-43 OH

June 1985

6 Tr 2350 Detroit U's, good
WLAO-49 OH
WTEO-45 OH
WFMJ-21 OH
2359 WJKW-8 OH
7 Es 1200 KJRH-2 OK
1700 ch.4 Newfoundland
NTV
ch.6 " "
ch.2 " French
1850 KSNW-3 KS
KSNW-2 KS
1855 unid Nfld & Lab-
rador, CBC.

9 Tr 0015 WSMH-66 MI
Flint-Saginaw-Bay City
K66BV
Detroit(SIN)
19 Es 0945 KOTA-3 SD
KLINE-3 NE
WGGN-52 OH

20 Tr ----

20 Tr ----

A lots of usual tropes seen also but too many to re-list. Intense month of Es kept me pretty busy. I also tried the PA-4975 amp on my tower but found it to have too much gain and too little input for my area, even with a #7206 Hi-Q trap. I hope the Es keep rolling in all summer. Tropes haven't been as good as last summer but as long as there's Es to watch I'll be happy.

Robert S. Ross: VL3JFC Box 4373 Stn. C, London Ont. 15W 5J2

May 1985

26 Tr 0200 WOIO-19 OH
27 Es 1200 KNOP-2 NE
1203 KCNC-4 CO
1225 ALBY-4 KS
1230 CBWT-3 MB
1235 CMND-2 MB
1328 WJLB-4 ND
1350 KGEF-2 ND
1457 KDLO-3 SD

June 1985

2 Es 2015 WPBT-2 FL
4 Tr 0624 WOAC-67 OH
0633 WAKH-23 OH
0638 WYTV-33 OH
0642 WYLO-45 OH
WLAO-49 OH
7 Es 1545 KPRC-2 TX
1602 KIII-3 TX
1605 KSNW-2 KS
1628 CJCH-5 NS

June 1985

7 Es 1628 CJCH-4 NS
CKCW-2 NB
1732 CJCN-4 NF
1900 KNOP-2 NE
1902 KPRY-4 SD
1910 KDLO-3 SD
16 Es 1250 KWGN-2 CO
17 Es 1230 WBRZ-2 LA
1250 CKWJ-2 MB
1259 WJLB-3 MS

Eastern TV-DX

June 1985

18 Tr 0135 WTOL-11 OH
0255 WDLI-17 OH
0340 CICO-12 ON
Es 1153 CBCT-4 P

Ross; continued---

June 1985

20 Es 1220 KTWO-2 WY
1243 KAMR-4 TX
21 Es 1320 KPRC-2 TX
23 Tr 0340 WPCB-40 PA

September 1985

June 1985

23 Tr 0350 WPGH-53 PA
Es 1320 KATC-3 LA
1400 KGEF-2 ND
2255 WML-4 LA

Equipment: Toshiba 12" TV, UHF Flying Arrow ant., whip ant. for VHF.

Frank Wheeler: 6589 Wattsburg Rd., Erie PA 16509 EDT

June 1985

20 Es 1258 KNOP-2 NE 1066
22 Es 1000 WDIQ-2 AL 815
24 Es 1132 KNDX-2 ND 1169

July 1985

2 Es 1100 KJRH-2 OK 943
1300 WBRZ-2 LA 1159
2130 KPRC-2 TX 1210
8 Es 1300 WPBT-2 FL 1095
1702 KOTA-3 SD 1169
1710 KARK-4 AR 929
1900 KSNW-3 KS 953
1903 KSNW-2 KS 1015

July 1985

8 Es 1910 KNOP-2 NE 1066
1930 KHAS-5 NE 948
1958 KLINE-3 NE 1016
9 Es 1100 CBCT-2 P 395
15 Es 1130 KTECA-2 MN 682
26-29 vacation in Altoona.
Totals: 289 received -
215 verified.

Equipment: Sylvania 24" color TV. Archer WU-160 ant. Servo-Rotor.

Ed Frye: 317 Hooker Ave., Poughkeepsie NY 12603-3111 EDT

I'm pleased to report that my new deep fringe UHF system has been operating as of July 1. Regarding day to day viewing, my Winegard DS-9095 antenna and Channel Master 7477A Super Titan preamp are stellar performers. WDCB-19 at 75 miles and WMTT-17 at 70 miles arrive with 1000 grade 1 pictures. Swinging to the east, the same can be said of Connecticut's WTXN-20 at 50 miles & WTTG-61 at 65 miles; along with WVT-30 which appears a little snowier, though. Even Kingston xlr W63AA at 17 mi. checks in with a consistent Grade 2 signal. "Super local" WTHY-54 (TL is visible from my QTH and just about everywhere in the Hudson Valley), however, substantially spills over into surrounding frequencies. I am hopeful a Channel Master 7206 High Q trap will resolve this problem. Further down the mast, installation of my system's Channel Master and Sitco narrowband yagis is being re-thought due to space limitations imposed by additional guy lines needed to better stabilize my 40 ft. telescoping Duratube mast.

By extending my 4th of July holiday into Monday, the 8th, I witnessed a sizeable Es opening that lasted for at least 5 hrs. So frenzied was the afternoon activity that signals on chs. 2 & 3 were virtually unintelligible. Not until 1700 EDT did things calm down to a more workable state. To my surprise this onslaught of Es even established a foothold in chs. 5 & 6 throughout the day. Every station that I logged held on for nearly 30 minutes apiece, most of the time coming through in color. A "News Center 5" weather forecast on KHAS-5 told of extreme heat and humidity which I imagine contributed to the magnitude of 7/8's Es duct. One station that I cannot identify came forth at 1915 EDT on ch.4 with ABC's "World News Tonight". Immediately following this network program, an I.D. slide appeared, though somewhat distorted as the duct progressively weakened. A distinctive "NTV" in capital letters was visible at the lower right hand corner of the screen; no verbal calls, however, accompanied this station break. Having done some research at the library, I'm unable to come up with any North American station that fits this description. Referring to 10/84 VUD, I noticed that Tom Yingling logged an "NTV-3" from Cuba. Is it possible that I, too, received a Cuban VHF station? (It's possible but the NTV may have been a reference to a network rather than a station's call letters. In the August WUD Robert Grant saw an NTV network station from Newfoundland. If I had to guess, I would say you may have been watching the latter off the back of your antenna. I have no first hand knowledge of the NTV stations or networks wherever they're from as Cuba and Newfoundland are out of single hop Es range from me.-wd) Judging by a World Radio TV Handbook listing, "NTV" represents "Television Nacional"; a ch.4 outlet exists in Camaguey. What puzzles me, though, is the presence of "World News Tonight" on this potentially Cuban channel. What do you suppose is the likelihood of Television Nacional airing such a program? (Not likely.-wd) Turning to July's WUD, thanks, Bill, for clarifying my 5/27 reception of KGEF-2 Grand Forks ND and KMB-3 Bismarck ND. For the record, I'd like to revise the mileages of these two stations: KGEF-2 should be 1220 mi. and KMB-3 is 1370 mi. from Poughkeepsie.

Eastern TV-DX

June 1985
23 Es 2300 KMTV-3 NE 1140
Tr 2330 WSTN-3 NY 155

July 1985
5 Tr 0700 WPHL-17 PA 135
0715 unid-67; SE
6 Tr 0650 WPHL-17 PA 135
color bars w/ tone
0700 unid-22; SW
8 Tr 0715 WNEP-16 NY 195
Es 1430 WDSU-6 LA 1210
1500 WNCN-5 TN 975

Frye, continued---

July 1985
8 Es 1730 unid-2; W
PBS
1730-1800 KJRH-2
OK 1240
1915-1930 KLAS-5
NE 1270
"MTV"-4 SSW; I.D.
slide vague. ASC's
World News Tonight
seen.
25 Tr 0005 WPMT-43 PA 185

September 1985
24 Tr 2315-2345 WNEP-16 PA
WBRL-28 PA
2330 unid-44; SW
WTFB-33 PA t
WDAU-22 PA 90
WOLF-38 PA
WLVT-39 PA 120 t

July 1985
12 Es 2145 KUSD-2 SD
2150 unids chs. 3&5; W.

Equipment: 1984 Mitsubishi CS-1952 19" color TV. VHF: Winegard CH-5200 40' above ground; CD AR22XL rotor; CM 0065 Antenna Systems Amplifier; Winegard DA-203 distribution amplifier. UHF: Winegard CS-9085, 45' above ground; CM 74-77a Super Titan preamplifier; CM 9510 rotor; DuraTube 1040 telescoping mast.

Ross, continued---

June 1985
29 Es 1100 WPBT-2 FL 1200

July 1985
2 Es 1259 KDFW-4 TX 1120
1301 KFDX-3 TX 1200
5 Tr 2200 CBWT-8-61 ON 60
7 Tr 2300 WGRZ-2 NY 120
8 Es 1540 KWKD-2 OK 1275
1555 KOTA-3 SD 1125
KPRY-4 SD 950
1900 KOET-2 OK 925
KTVI-2 MO 550
1914 KMDX-4 MO
1910 KSDX-5 MO

July 1985
12 Es 1917 KSNW-3 KS 925
1920 WDAF-4 KS 750
1930 KATC-2 KS 950
1915 KRCW-2 NE 850
2055 KQND-2 MB 1025
2115 CBWT-8-61 ON 900
2130 KUSD-2 SD 800
2150 KCKK-2 SA 1225
2157 CFSS-3 SA 1125
2230 KXJB-4 ND 860
1128 KJRH-2 OK 925
1316 KNOP-2 NE 1010
1807 WLSA-2 FL 1000
Tr 1809 WGRZ-2 NY 120

July 1985
14 Es 1821 WPBT-2 FL 1200
Tr 1825 CIII-6 ON 60
1828 WJXT-4 FL 875
15 Es 1111 KPRY-4 SD 950
1115 KIVV-5 SD 1125
1150 KPIO-6 SD 925
2238 CFSS-3 SA 1125
18 Tr 1850 WWSW-5 OH 100
19 Tr 0645 WTTT-28 OH 225
0750 WOAC-67 OH 200
20 Es 1333 WESH-2 FL 1000

Equipment: Toshiba 12" TV, Flying Arrow UHF whip VHF.

John F. Combs; 2831 Selma, Jacksonville FL 32205 EDT

June 1985
22 Es 1832 time in
2156 CKOQ-2 ON
23 Tr 0517 WSB-2 GA t
WCSC-5 SC 204
WSOC-9 NC 347
WCCB-18 NC
WLTN-19 SC 262
0525 WGBD-2 SC 202
0530 WECT-6 NC 335
0537 WGSB-16 SC 323
(I.D. 3/4 c.b.--rare
next to local ch.17)
0539 WRET-36 NC 347
0549 WHNS-21 NC 370
0600 WSPA-7 SC 338
WIS-10 SC 270
0609 WOIO-25 SC 263
(I.D. 3/4 c.b.)
0610 WLTZ-38 GA 240
0646 WRLK-35 SC 267
WNEA-38 SC 238
WNET-49 SC 317
0658 WTVN-9 GA 229
Es 0942 noted; no time..
1245-1330 noted; no time..
I.D.s
Tr 2255 Many SC U's again
24 Tr 0554 same as 23rd
26 Es 0947-0955 unid ch.2.
27 Es 1159 noted; no time..
29 Es 1935 time in
1944 H----2 DR 1100
Santo Domingo

June 1985
29 Es continued---
(Dubbed movie; 1957
lg "TA" logo w/"Can-
ales 2 y 13"; sports
highlights, then into
another movie). "Telle-
Antillas"
1948 HISS-5 DR t
(strong 0 cci to
WUFT)
2100 antennas dis-
connected due to sev-
ere lightning storm.
30 Es 1229 time in
1328 KJRH-2 OK 925
1330 KSNW-3 KS 1040
1336 KSNW-2 KS 1121
(2 // 3 but ads different)
1455 KTVI-3 MO 800
(still "KY-3" I.D.)

July 1985
1 Tr 0745 WJAF-6 GA(SC) 214
Es 0913 noted; not time..
2 Tr 0819 WIS-10 SC 270
WOIO-25 SC 263
WSPA-7 SC 338
1231 noted; no time
1533 KMTV-2 TX 1221
1559 KOET-3 OK 860
1607 KJRH-2 OK 925
3 Tr 1725 WJKA-26 NC 335

July 1985
4 Tr 0758 WAGT-26 SC 215
WEBA-14 SC 200
0813 WAGT-41 GA 202
WGXA-24 GA 201
0826 WATL-36 GA 288
0851 WTVX-34 FL 234
0859 WNEH-38 SC 238
0900 WOIO-25 SC 263
5 Tr 0550 SC U's
6 Tr 0620 WIS-10 SC 270
0650 WAGT-26 SC 215
WEBA-14 SC 200
0730 WJKA-27 SC 261
1644 WIS-10 again
7 Tr 0626 WITV-3 SC 204
0632 WFLX-29 FL 272
0734 W29AB FL 77
Es 1212-1300 no I.D.
8 Es 1225 KDKA-2 PA 710
1227 CKVR-3 ON t
WGBH-2 MA t
1230 WGRZ-2 NY 875
1253 WTVH-5 NY 927
1254 WSTM-3 NY t
1316 WRGB-6 NY t
1323 CBMT-5 ON 930
1334 CBMT-6 PA 1138
1503 CICI-5 ON 1120
2348 WJKA-26 NC 335
9 Es 1041-1053 no I.D.'s
1313 XEPB-2 NL 1220
1317 KXTX-5 TX t
1335 KIII-3 TX 977

Eastern TV-DX

June 1985
10 Tr 0650 WJKA-27 SC 261
WJKA-26 NC 335
WUNJ-39 NC
WJPM-33 SC 297
WUNM-19 NC 418
WPTF-28 NC 410
WTVX-34 FL 234
WGSB-43 SC 282
WDE-15 SC 313
1935 WJKA-26 NC 335
2100 more of the same

Combs; continued---

July 1985
10 2325 Tr WHMC-23 SC 294
WLTL-22 NC t
11 Tr 0915 SC 14,25,38
13 Es 1141 noted; no time
Tr 2124 W69AY FL 60
W29AB FL 77
14 Es 2022 noted; no time
17 Es 1014 CBFT-2 PA 1138
(Phillips TP)
1016 WGRZ-2 NY 875
1029 CKVR-3 ON 977

September 1985
17 Es 1031 had to quit.
22 Es 0843 noted; no I.D.'s
23 Es 0900 brief; unid-2
25 Es 1125 KGAN-2 IA 1002
1128 KLINE-3 NE t
1158 KUSD-2 SD 1210
Vermillion
1253 KTVI-3 MO 898
Ottumwa IA
1300 local thunder
storms; Es almost gone.

Nice to get 18 new stations in one month's time, but then I haven't been DX-ing here for long. I had called Ken Simon on 6/29 to inform him of the Es opening. He was on the phone when the Tele-Antillas I.D. came up, and confirmed it as he had seen it before. Also had an assist from Mike Reid on I.D.-ing CICI-5 on 7/8, thanks Mike. CBFT-2 was running what I believe is the Phillips TP--quite popular in Europe, but the first time I've seen it used on this continent. The TP had Montreal and SRC/CEC on it. Hope WJXT's impending move to a new tower about 5 miles more distant will make things a bit easier to live with on low band. They are less than 3 miles away right now and really gum up the works, even with a ch.4 trap installed. I tend to use a little 5" receiver ("no-name" brand) during Es as it seems to be a bit more selective than the Sears 12". Hope to raise the antennas 6 or 7 ft. before fall tropo. By the way, all 3 Canadians logged on 7/8 were running U.S. soaps--whatever happened to those "Canadian Content" rules??

Equipment: 5' UHF dish at 26.5' AG, large VHF log or uncertain pedigree at 20', Sears 12" b&w receiver, "no-name" 5" b&w receiver, basic Radio Shack RG 59-U coax, Microwave Filter Co. "Fasttrap" for ch.4, Radio Shack FM trap, bargain basement rotor.

Frank Merrill; P.O. Box 7207, Toledo OH 43615 EDT-CDT

May 1985
20 Es 2046 KNID-2 TX
2100 KTVS-3 CO

June 1985
7 Es 1500 KGST-4 TX
KRGV-5 TX
KRIS-6 TX
zero offset
1613 KPRC-2 TX
1735 CBVT-5 NF t
drat!
CHSJ-4 NB
CHSJ-1-6 NB
1900 KEME-3 ND
KWSE-4 ND
KDLO-3 SD
1903 KXMA-2 ND
(ex-KNDX, KDIX)
1500 KRMA-6 CO
1515 KTW-2 WY
1653 WESH-2 FL
1700 WEDU-3 FL
1755 CM---3 Cuba
("6" net)
CM---6 Cuba
("6" net)
1800 WTVJ-4 FL
1801 WPTV-5 FL
Tr 2200 WFLB-14 IN
WKMA-35 KY
WZTV-17 TN
WKGB-53 KY
WKMJ-68 KY
WUSI-16 IL
KFSV-12 MO
2330 WCAY-30 TN
9 Tr 0010 WKOH-31 KY
// to 29 & 53
0016 WTV-2 IN
0037 KAIT-8 AR

June 1985
9 Tr 0038 KARD-14 LA t
0039 KSPR-33 MO
WGRB-34 KY
snowfree
0040 WVVV-44 IN
over WTLW
KLRT-16 AR 670
0045 WDDD-27 IL (new
snowfree
0136-0425 WMIN-9 IN
ran TP all night
0154 KTVF-29 AR
0156 KHSB-40 AR 740
part of s/off // to
KTVF-29.
0206 KARD-14 LA 810
0210 WSLI-3 IL
0211 WPTV-24 TN
0215 KESI-23 MO
0230 WCAY-30 TN
0235 WKRW-30 TN
0250 WHNS-21 NC
0316 WBBQ-13 TN
0412 WLCN-19 KY 370
0410 KTRK-13 TX t
light cci against WH-
B-13; faded soon.
10 Es 1601 KIII-3 TX
1602 KPRC-2 TX
1630 KJAC-4 TX
1631 KRGV-5 TX
1657 KRIS-6 TX
1728 KPDN-6 TX
1731 AGST-4 TX
1918 KTRK-13 TX
2254 KLB-5 OH t

Eastern TV-DK

June 1985

10 Es 2254 KJBC-4 TX
2300 KJBC-3 TX
11 Tr 0211 KJBC-4 TX
Es 1200 KJBC-3 TX
12 Es 2056 KJBC-2 TX
2100 KJBC-3 TX
13 Es 1228 KJBC-3 TX
1300 KJBC-2 TX
14 Es 1230 KJBC-5 TX
1300 KJBC-6 TX
1305 KJBC-5 TX
1330 KJBC-6 TX
1400 KJBC-3 TX
1420 KJBC-5 TX
1430 KJBC-2 OK
1502 KJBC-2 KS
1531 KJBC-4 KS
1534 --?--4
"NTV network"
2030 KJBC-2 SA
15 Es 1000 KJBC-3 TX
KJBC-2 TX
16 Es 1430 KJBC-2 NM
2312 KJBC-2 TX
17 Es 1252 KJBC-2 TX
Tr 2350 WJBC-14 IN
KJBC-12 MO
18 Tr 0000 WJBC-38 IN
strong!
WJBC-20 IL
0030 KJBC-15 MO
ABC logo; then "KJBC-15"
I.D. visible on WJBC.
0055 KJBC-12 MO
WJBC-13 IN
over WJBC.
0058 WJBC-27 IL
(now WJBC-wd)
over WJBC.
0101 KJBC-30 MO
0125 Evansville U's
0130 KJBC-23 MO
0230 Nashville U's
Es 1800 KJBC-3 SD
KJBC-3 ND
KJBC-2 ND
1830 KJBC-5 ND
1922 KJBC-2 MT
1946 KJBC-4 MT
2000 KJBC-3 MT
19 Es 1228 KJBC-2 CO
1230 KJBC-4 NE
1259 KJBC-3 MT
1434 KJBC-2 WY
1600 KJBC-2 NE
1632 KJBC-2 NE
announcing all night
movies.
1730 KJBC-2 CO
1930 KJBC-4 CO
1940 KJBC-3 CO
News story about a cap
collector. Flashed a
cap from Toledo's FOOD
TOWN!

Merrill; continued---

June 1985

19 Es 1959 KCWC-4 WY
2006 KOWY-5 WY
Report from "CBS-14"
(KCWC).
2017 KOTA-3 SD
2029 CKND-2-2 MB
2035 KIVV-5 SD
2049 CKCK-2 SA
2100 CKCK-2 SA
20 Es 1300 KENW-3 NM
1315 KVMZ-2 NM
1316 KTVB-6 KS
1326 KAMR-4 TX
1359 KNME-5 NM
21 Es 1332 KPRC-2 TX
2058 KWSE-4 ND
2100 KXMA-2 ND
KOUS-4 MT
2130 KDUH-4 NE
2200 KTWO-2 WY
2226 CKBI-5 SA
2306 CKOS-5 SA
CFSS-3 SA
22 Es 2318 CKCK-2 SA
1333 KMID-2 TX
1458 KLBV-4 KS
KWGN-2 CO
1500 KHAS-5 NE
KOA-5 CO
KLINE-3 NE
KMA-6 CO
1529 KTVS-3 CO
1602 KYCU-5 WY
1730 KWSE-4 ND
1832 WBRZ-2 LA
2000 KPRC-2 TX
unid-2;
French; from E.
2100 KJRH-2 OK
KFDX-3 TX
KTVY-4 OK
2300 KGFE-2 ND
KDUH-4 NE
2326 CKCK-2 SA
23 Es 0006 CFSS-3 SA
0140 W32-- IN
(Muncie; snowfree)
0530-0630 WV U's;
Toronto U's strong
0637 W41AA WV
(xltng WJLT)
Es 1100 CBWT-6 MB
KWSE-4 ND
CKND-2-2 MB
1108 CFSS-3 SA
CKOS-5 SA
1117 CBSS-6 SA
1130 Boston 2,4,5.
1200 CKCK-2 SA
1216 KIII-3 TX
1325 WBRZ-2 LA
1334 KJAC-4 TX
1435 KENS-5 TX
2032 KAMR-4 TX
2100 KOAA-5 CO
CKBI-5 SA
2124 KWGN-2 CO
2136 KYCU-5 WY

September 1985

June 1985

23 Es 2201 KTWO-2 WY
2300 WEAR-3 FL
2301 KPRC-2 TX
24 Es 1400 KIII-3 TX
1402 KXFB-2 NI
One of the nearest I.D.'s
Aerial view of Monterrey
with intermittent 2's com-
ing forward...wish I had
VCR. (me too-wd)
1605 KMID-2 TX
1801 WLEZ-2 ME
1802 CJCB-4 NS
1830 WGBH-2 MA
1922 KAMR-4 TX
1931 KSNW-3 KS
1954 KSNW-2 KS
25 Es 1715 KVMZ-2 NM
28 Es 1027 KTWO-2 WY
1032 WEAR-3 FL
1100 KENW-3 NM
KNOP-2 NE
1127 KAVE-6 NM
KXJ-5 CH
1150 Briefly saw 3/4
c.b. with KNBC I.D., but
I suspect an NBC snafu,
not Californial!
1200 KAMR-4 TX
2101 KWGN-2 CO
30 Es 1300 WPBT-2 FL
WTVJ-4 FL
CM---3 Cuba
"6" net.
WPTV-5 FL
1319 WCIX-6 FL
1820 WJBC-2(local)
had ad for golf and pro
shop in Saskatoon SA!
Apparently for Canadian
CATV dish watchers!

July 1985

1 Es 1230 KJRH-2 OK
KFDX-3 TX
KTVY-4 OK
2 Es 1230 KJRH-2 OK
KFDX-3 TX
KAUZ-6 TX
1300 KDFW-4 TX
KTX-5 TX
KOTV-6 OK
(KOTV I.D.'s as in 87.7!)

Eastern TV-DK

7 Es 2030 KENW-3 NM
2032 KVMZ-2 NM
8 Es 1230 WPBT-2 FL
CM---3 Cuba
"6" net
1300 WTVJ-4 FL
KACB-3 TX
1315 KFDX-3 TX
KVMZ-2 CO
1330 KSNW-2 KS
KTVS-3 CO
KTVY-4 OK
10 Es 1908 KWGN-2 CO
12 Tr 0500-0620 WMBH-42 AL
WGRB-34 KY
snowfree
Nashville U's
13 Es 1100 KJRH-2 OK
KFDX-3 TX
KOCO-5 OK
1232 KWGN-2 CO

Merrill; continued---

July 1985

14 Es 1900 WESH-2 FL
17 Es 1120 KMID-2 TX
1128 KENS-5 TX
Tr 2040-2110 KFSV-12 MO
WZTV-17 TN
WKSU-29 KY
WKMU-21 KY
2200 WKMA-35 KY
WAPT-16 MS
KARD-14 LA 810 19 Tr 0330
WMAV-18 MS
2300 WWSB-27 MS 640 20 Es 1300 KLINE-3 NE
"WWSB, TV-27 West Point" 30 Es 1800-2100
2348 WDBD-40 MS 760
"..on Jackson's movie sta-
tion WDBD.."
18 Tr 0002 WKPT-19 TN
WGRB-34 KY
0134 KSPR-33 MO
KSNF-16 MO

September 1985

18 Tr 0150 KJNL-30 MO
WCAY-30 TN
0200 KARD-14 LA 810
stayed past
0800!
2312 W5AS WI(WCIU)
Milwaukee
"..action 26"
under WFFT.
WTVB-51 PA
WDCA-20 DC
KLINE-3 NE
KMID-2 TX
KVMZ-2 NM
KWGN-2 CO
KONC-4 CO
KAMR-4 TX
KENW-3 NM
KNME-5, KOB-4 NM

Some very interesting openings this year! I again credit my lower low band
yagi with making KXPM-2 possible, and with that earlier WCAX-3. I consider
it "paid for"! It looks like KMID/KPRC-2 (10 times each) and KFDX-3 (8 times)
were the most common Es here this season, but it was rather strange how I
went 10 years or so without seeing KJRH-2 and this year it was common! The
KPOB-15 catch was strange, as around midnight I started noticing "flutter"
against WANE from the proper direction, but Jeff Kadet didn't think that KPOB
could ever get up here (nor did I), and around I.D. time it was nearly atop
WANE. WANE's audio, however, never did yield. You may have noticed a 19 day
string of DX (June 7-25, which I'm sure is a record for me, and I doubt that
I will ever break that. What is the longest string of consecutive DX days
that anybody has been known to have? (You got me.-wd) Ironically the string
broke on June 26, one of the "definitive dates" for Es. I have a suggestion
for those people who have the DX "blahs" because new catches are so few and
far between. Why not keep two logs? The first log would be a cumulative one
of all your DX to date. The second log would be a year to date log, where you
would start from scratch on January 1, and log stuff, starting with your locals
as, as though you were a brand new DXer. You could compete with yourself
and try to beat your previous best "year" totals. You would be in a better
position, too, to really be able to compare the quality of different DX sea-
sons, and it would answer a lot of questions as to "how good a year was it,
really?" Of course this needs lots of extra paper work, though, and because
I am so busy with many other things, I haven't given this approach any real
consideration. Oh yes, this should be my final DX report from Ohio. I'll soon
be in Macomb IL but it will take a while to settle in! I'm taking van load
#1 to Macomb late today (7/31) and my antennas are supposed to come down 8/3,
so my final totals are as follows: I DXed in Michigan from 1962-1969. Grand
total for Ohio only is 717; Ohio + Michigan 746. Tropo: 559 and 580 respec-
tively. Es: 157 and 166. Ms: 5 and 11. Au: 0 and 0. Best UHF channel tot-
al: Ch. 19, with 15 stations. Farthest Tr: KRIV-26, KHTV-39 both 1070 mi.
Farthest Es: KIX-3 Merida Yucatan 1550 mi. Shortest Es: WUNC-4 510 mi., KDAL
-3 500 mi. (never logged latter in Ohio). Highest channel total: Channel 3
with 57 and 59 stations respectively. So, Macomb will involve starting from
ground zero. It's always possible I'll eventually add the coming Toledo ch.
36 to the above, on a future visit.

Robert Seytold; Bennett Road, Dunkirk NY







Long time since I sent in a report. Was rather inactive in winter and early
spring months as far as logging DX. Did get in on a couple of winter openings
(trops) and did see some Es. Did log WVUT-22 after many years of trying. Did
see Es in May and June but did not log it. Saw no new ones except on tropo.
It has been a rather poor Es season in my opinion. (why; didn't you see the
West Coast or South America like you usually manage to do?..). New on tropo
include WSMN-66, WAP-49, WOLF-38, WLIQ-55, WJTV-66, WROG-45. Recent DX:

July 18; tropo-good Lexington U's, Columbus U's, Dayton U's, WTAP-15, WKMR-38,
WKPC-15, WKY-32, WDRB-41, WXYZ-39, WPE-42, WPE-16, WDCA-20, WFTY-50, WNUV-
54, WITF-33, Syracuse & Utica U's, CHLT-15, WOUC-44, WTLW-44, WSGU-57, WSPF-
51, WKON-52, Ft. Wayne & S. Bend U's, WLEI-18, WCMU-14, WVAH-23, WKMI-17 and

Eastern TV-DX

Seybold, continued--- September 1985
 others. July 19- tropes WCFC-38, WBAK-38, WLEX-18, WKYT-27, WTVQ-36, W36AB, WWPB-31, WTAP-15, WLYH-15, WPTF-28, WAFB-48, WKMR-38, WITF-33, WHP-21, WTPA-27, WPMI-43, WCET-48, WCIT-26, WCFC-38, WSNB-44, WBSB-60, WHTT-27, WNTV-15, WKOW-27, WXCZ-32, KDUB-40, WUSI-16, WICD-15, KDNL-30, WKOI-43, CICO-20.
 July 20-Es chs.243 only; afternoon opening. Troops open in afternoon also, rather unusual; WTVK-26, WCAV-30, WFTZ-39, Pittsburgh V's & U's super, WSWP-9 (rare), WBAK-38, WKMR-38, WZTV-17, WCHS-8, WVAH-23, WPEY-33, WTAP-15, WLEX-18, WKYT-27, WTVQ-36, WITE-28, WOSU-34, WPTD-16, WRGT-45, WPTD-16, WNTT-34, WNDU-16, WFUM-28, WSMH-66, WLF1-18, WDLI-17, WOAC-67, WCFC-38, WUHQ-41, WSFJ-51, WANE-15, WKJG-33, WFTF-55, WCMU-14, WUCM-19. July 21 Tr A.M.-WCMU-14, WGVK-52 WTAP-15, WNDU-16, WPTD-16, WANE-15, WDLI-17, WOAC-67, WHIZ-18, WUCM-19, Detroit U's super, WPGH-53, and other Pittsburgh U's; WOUC-44, WUHQ-41, WCFC-38, WOSU-34, WEGU-57, WFTF-55, WTVV-18, WEYI-25, WACP-49, WKAR-23, WSYX-47, W67AJ (WLNS), WFUM-28, WSMH-66. July 26 Tr A.M.-Chicago U's(all), WTVV-18, WGVK-52 WGVK-35, WUHQ-41 WCGV-24, WSYM-47, WKMI-17, WUCM-19, WKAR-23, WEYI-25, WFUM-28, WHTT-31, Ft. Wayne U's, WNDU-16, WUCM-19, WSET-22, WNTT-34, WSVJ-28; P.M.- WTJC-26, WNEO-45, WRGT-45, WOUC-44, WPEO-42, WHIZ-18, WPTD-16, WKEF-22, WDLI-17, WBAK-38, WKMR-38, WTAP-15, W41AA, WFAT-19, Pittsburgh U's good in evening also. July 28 Tr- WNDU-16, WNTT-34, Ft. Wayne U's, WCGN-52, WKON-52, WOUC-44, W27-- (Lima), WTLW-44, WEGU-57, WVAH-23, WPTD-16, WKEF-22, WITE-28, WOSU-34. July 29 Tr A.M.-good; WCMU-14, WUCM-19, Chicago U's, WLF1-18, WHIZ-18, WICD-15, WAND-17, WPHL-23, WNDU-16, WSET-22, WSVJ-28, WNTT-34, WANE-15, WPTA-21, WKJG-33, WFTF-55, WKMI-17, WGVK-35, W27-- (Lima-Bowling Green), WBCU-57, WTLW-44, WOUC-44, WNEO-45, WDLI-17, WOAC-67, WUHQ-41, WACP-49, WSMH-66, WHTT-31, WEYI-25, WKAR-23, WBAK-38, WPDG-59, WITE-28, WOSU-34, WCGN-52, + others. July 30 evening tropes - WPTD-16(rare), WPTD-16, WKON-52, WKEF-22, WTVQ-36, W36AB, WKMR-38, WPEO-42, WCAV-30, WVAH-23, WLYH-15, WITF-33, WCCA-20, WFTF-55, WNET-48, WITE-28, WOSU-34, WSFJ-51, WTJC-26, WCGN-52, WOUC-44, WNEO-45, Lima U's, WTAP-15, WDLI-17, WOAC-67; A.M. tropes-WMB-40, WPDG-59 good; WKOI-43, Ft. Wayne U's South Bend U's, WCFC-38, WITE-28, WOSU-34 + others. A.M. tropes- Michigan U's super; WGVK-52(rare), Ft. Wayne U's super; WNDU-16, WNTT-34, WHEM-46, WITE-28, WOSU-34, WHIZ-18, WPTD-16, WKEF-22, WOUC-44, WNEO-45, WSFJ-51, WBGU-57. That is about it for this report. Expecting good amount of tropes in next 60 days.

WORLDWIDE TV-FM DX ASSOC.

 <p>WANE-TV 15 Indiana Broadcasting Corporation 2915 West State Boulevard Fort Wayne, Indiana 46808</p>	 <p>WIFR TV 23 P.O. BOX 239 ROCKFORD, ILLINOIS 61105</p>
 <p>WISN-TV 12 television channel 12 P.O. BOX 1818 Milwaukee, WI. 53201</p>	 <p>WZZM-TV 20 Ziff-Davis Broadcasting Company P.O. Box 3265, Saginaw, Michigan 48605</p>
 <p>WKPT-TV 19 abc - 222 COMMERCE STREET • KINGSFORD, TENNESSEE 37660 -</p>	 <p>WBAK-TV 38 BOX 719 TERRE HAUTE, IND. 47808 SERVING TERRE HAUTE WITH 2.3 MILLION WATTS</p>



QSL CORNER

THOMAS J. YINGLING, JR.
 221 PINEWOOD ROAD
 BALTIMORE, MD 21222-2345



TV QSL's

- FL WXFL 8 Tampa, 905 E. Jackson St., zip 33602. Prepared post card signed by Patrick McLaughlin, CE. Also send bumper-sticker, coverage-map & a free T-shirt with "The Spirit of Tampa Bay, 8 WXFL" reply in 8 days. Van Horn
- WTSP 10 St. Petersburg, 11450 Gandy Blvd., P. O. Box 10,000 zip 33733. Letter from John F. Winter, Asst. Dir. of Eng. Also send back my prepared card signed, coverage-map & promotional pin in 6 days. Van Horn
- WINK 11 Ft. Meyers, P. O. Box 1060, 2824 Palm Beach Blvd. zip 33902. Prepared card signed by Program-Research Director who's name I can't make out. Also send coverage-map in 9 days. Van Horn
- WFLX 29 West Palm Beach, 4130 Blue Heron Blvd. zip 33404. Send prepared card signed by Angelo Figurella, CE in 9 days. Van Horn ***
- GA WSAV 3 Savannah, P. O. Box 2429, zip 31402. Send my prepared card signed Byron Strong, CE in 6 days **
- WI WBAY 2 Green Bay, 115 S. Jefferson St, zip not given. QSL Card signed by Joseph A. Taylor, CE, W9JO in 7 days. Van Horn
- SC WEBA 14 Allendale % Rt. # 1, Box 47, zip 29812. Send my prepared card signed by Charles E. Cortez, CE, WA4FGF in 8 days. Card send with an blank letterhead paper (maybe he wants me to type it in (hi!)) Van Horn
- MB CKND 2 Minnedosa, % 603 St. Marys Rd., P. O. Box 60, Winnipeg, MB zip R2M 4A5. Letter from Robert C. Hall, CE in 1 week. Ross
- NF CJCN 4 Rattling Brook, % NTV, 446 Logy Bay Rd., Box 2020, St. John's, zip A2C 5S2. Letter from Scott Gibson, Eng. in 3 weeks Ross
- NS CJCH 5 Halifax, ATV, 2885 Robie St., zip B3J 2Z4. Letter from Wallace Robert, Eng. in 3 weeks. Ross
- ND KXJB 4 Fargo, Box 2926, zip 58108. Letter from Arvid Sonsteli, CE in 2 weeks. Ross
- OH WOIO 19 Cleveland, 2720 Van Aken Blvd. zip 44120. Letter from Bob Thurber, jr. CE. Ross
- SD KDLO 3 Garden City, % KELD-TV, Sioux Falls, zip 57102. Lette from Marge Artus, Eng. Secr. (same name on my qsl, ed.) in 2 weeks Ross
- VA WNVG 56 Fairfax, % 8101 Lee Hwy., Falls Church, zip 2204 Send my prepared card & decal in 1 month. Holbrook
- NC WCCB 18 Charlotte, 1 TV Place, zip 28205. Letter from Steward Albert, CE in 3 weeks with movie schedule Batstow

Reporters this time are Larry Van Horn of Orange Park, FL who is a new member with some QSL's since moving from Dallas, TX; Robert S. Ross of London, ONT and from Hank Holbrook of Chevy Chase, MD. Larry is the editor of RCMA 'Space Communications' & editor of 'Signals from Space' in Monitoring Times. He ask what is my deadline. Just send in anytime, as I need items to type up as I'm always running low since I always get the same reporters as it seems. 73's and keep DX'ing & QSL'ing' Tom J.

WESTERN TV-DX

September 1985

Fred McCormack
Box 5221
State University Sta.
Fargo, ND 58105

Deadline: 10-4-85

This month's reports witness a decline in the amount of E skip and a continuation of some nice tropo openings, although nothing of the 1000 mile variety.

Due to time conflicts, I will be unable to prepare Western TV DX for the month of October. Any reports received here by October 4 will be used in the November column. It should be sizable.

New _____ New Mode _____ Tent. - t Unidentified - unid S/On - + S/Off - =
ID Color Bars - @ - Unid Color Bars - % IHTP - \$ Misc. Test Patterns - &

CH - Chihuahua HD - Hidalgo PU - Puebla
DF - Distrito Federal NL - Nuevo Leon TA - Tamaulipas

Paul Swearingen, P.O. Box 4812, Panorama City, CA 91412

E-Skip is hard to come by in the eastern end of the San Fernando Valley (within a stone's throw of the Burbank Airport). so I've had to depend upon "smog enhancement" plus some new equipment to log any DX.

I've added a Winegard antenna plus amplifier and a Sanyo 4670 VCR to my Montgomery Ward 63-123494 13" TV (actually built by Toyomenka in their Orion factory with Panasonic parts; I recommend it and it's successors, 63-12387, 63-12396, and 19" 63-12966 and 20" 63-12865 very highly for DX'ing. They all have monitor capabilities, plus remote control, etc. Yes, I DO work for Montgomery Ward; guess which department, hi!).

Although I have severe horizon blockage here in almost all directions, I do have a straight shot at Tijuana directly southeast and 6, 12, and 33 (XHAS-TV) are regulars, as are the San Diego channels including new KTTY-69. KAGL-30 is off and running again, mostly with religion and that mostly Dr. Gene Scott, whose KHOF-TV was forced to vacate channel 30 a couple of years ago.

I've recorded a total of 25 legal ID's on the VCR; I have it hooked up so I can tape directly from the TV's composite output (audio and video) into the VCR, which has only potentiometer tuning, not quartz-lock. That way, I can flip back and forth between channels when recording, especially useful when I'm trying to capture a translator, to show what the original is like.

I've had transitory E-Skip both here and at the store (which uses ancient Blonder-Tongue amplifiers for each local channel) on channels 2 and 3, but never enough to identify. 73,

***** (Welcome to the column, Paul. Keep us informed on any DX that makes it through. fm)

Jim Pizzi, P.O. Box 1778, Lovington, NM 88260 (505)-396-3251

MDT

Equipment: Tri-Ex MW-65' Tower - @ 65', 10 element Antennacraft (hor) into Akai AT-V04 and JVC VT700 with Jerrold FM de-snowers; @ 68', Finco P-7 UHF dish with Eu-4s preamp into Sony 8" b&w or Motorola 19" color; @ 72', Winegard CH-7023 (10 elements, chs 7-13) with Winegard AC-9730 preamp into Motorola 19" color. 35 Foot Tower - @ 35', Winegard CH-4054 with Winegard A-215 in house tube amp into Motorola 19" color; @ 38', CM 4250 6' UHF with Eu-4s preamp into 12" Emerson b&w. 20', 10 element channel 2 with Winegard AC-9260 preamp (channels 2-6); 35', CM-1110 with Winegard AC-9990 preamp on 20' push up on garage roof; Channel 2 and FM vertical on 20' push up; Winegard CH-4054 on 10' mast; 25', 10 element Antennacraft FM (vert) into JVC VT900; 13', Winegard CH-4052 with Winegard AC-9260 preamp (chs 2-6).

June 1985	23 Es 2147 WDTN 2 OH 1152	27 Es 1820 unids ch 2 ne
22 Es 0745 unids chs 2-4 ne	25 Es 1820 unids chs 2,3 ne	2129 KUSD 2 SD 761
1825 unids chs 2-4	26 Es 1430 XEW 2 DF 960	2138 KDLT 3 SD
23 Es 1000 CKPR 2 ON 1260	1459 XHP 3 PU 985	(20 kHz - KENW)
1330 WFMY 2 NC 1380	1500 unid ch 4 Mexico	2143 KBJrt 6 MN
1930 WTVW 2 IN 981	(Full color bar)	2151 KDLTt 5 SD
2000 WKZO 3 MI 1148	27 Es 0730 XEW 2 DF 960	(20 kHz - KXTX)
2033 WBAV 2 WI 1125	0800 WJXT 4 FL 1300	2152 CKX t 5 MB CBC
KGAN 2 IA 878	0830 WESH 2 FL 1346	(0 kHz to above)

Western TV DX

September 1985

Jim Pizzi (continued)	5 tr 0750 K61## 61 sw OK?	11 tr 0749 K30AE 30 OK 370
27 Es 2200 KTCA 2 MN 968	(Unknown KOKH-25)	(Alva KETA-13)
2319 unid ch 2 Mexico	Es 0838 KCBS 2 CA 855	0755 KMTC 27 MO 650
0800 unids chs 2-4 nne	KEYT 3 CA 945	0831 unid 17 ne NBC
0830 WDTN 2 OH 1152	KNBC 4 CA 855	(Is KDOR-17 on?)
1915 unid ch 2 ne ABC	7 Es 0915 unids chs 2-5 ne	12 tr 0815 KSNF 16 MO 576
2100 KTIV 4 IA 747	1100 KUSD 2 SD 761	KPOM 24 AR 564
2123 KFBV 5 MT 1062	KDLT 5 SD 788	0840 KHBS 40 AR 526
2126 KRTVt 3 MT +kHz	1900 WCTA 3 IL 959	Es 0840 unid ch 2 ne
2130 KXMA 2 ND 936	2003 KDKA 2 PA 1373	tr 0841 unid 17 ne NBC
("KX2" & "KX12")	(Again at 2115)	(Not KCBJ. Same
2200 KBCI 2 ID 990	2100 WKYC 3 OH 1310	as 7/11 logging)
und 2 CBC SA/AL?	2101 WIVB 4 NY 1463	13 Es 0730 WDTV 5 WV 1328
2204 KLEWt 3 ID -kHz	2102 WJBR 2 MI 1260	0800 WTVT 4 IN 1059
30 Es 0940 unids chs 2,3 ne	2104 WCMH 4 OH 1215	WLWT 5 OH 1125
1000 KCRA 3 CA 1071	2109 WAVE 3 KY 1049	0830 WDTN 2 OH 1152
1100 KRON 4 CA 1116	2112 WBBM 2 IL 1040	KDKA 2 PA 1373
KPIX 5 CA 1116	2116 WDTN 2 OH 1152	KTVI 2 MO 824
KVVU 5 NV 698	2131 unid channel 5	0832 XHHT 5 HD? XEW
(Under KPIX)	(Prob. WWSW or WLWT)	14 Es 0915-1030 unids 2,3 ne
	2132 WTAE 4 PA 1373	1030 WTVW 2 IN 981
	2159 WDIV 4 MI 1260	1045 WMAB 2 MS 828
July 1985	8 Es 0814 WBAV 2 WI 1125	1932 unid ch 2 e PBS
2 Es 1830-2000 unids 2-6	0830 KTCA 2 MN 968	2000 WSJK 2 TN 1170
(East & northeast)	2101 CKTV 2 SA 1188	15 Es 0725 unid ch 2 ne
2000 WTTV 4 IN 1059	2130 KSRE 6 ND 1035	0800 unid ch 2 Mexico
2000 WUNCt 4 NC PBS	2146 CKND 2 MB 1184	17 Es 1001 unids chs 2-6
2100 WDIQ 2 AL 1008	2205 CKX 5 MB	1040 KGFE 2 ND 1058
2130 WDTN 2 OH 1152	2304 CKOS 5 SA 1238	KSRE 6 ND 1035
2223 KTVU 2 CA 1116	10 Es 1701 KGAN 2 IA 878	1118 KGAN 2 IA 878
2224 KRONt 4 CA	WBAV 2 WI 1125	20 Es 0758 unid ch 2 ne PTL
KPIXT 5 CA	WFRV 5 WI 1125	0800 KDKA 2 PA 1373
3 Es 0047 KTVQ 2 MT 900	1758 WJBK 2 MI 1260	0830 WSJK 2 TN 1170
1100 KTVU 2 CA 1116	11 tr 0725 KTVY 4 OK 380	WSIL 3 IL 887
1200 KRON 4 CA 1116	KOKI 23 OK 486	22 Es 0800 WPTB 2 FL 1508
KPIX 5 CA 1116	KGCT 41 OK 486	WTVJ 4 FL 1508
1025 WBBM 2 IL 1040	0729 KTCT 47 OK 486	23 Es 0720-0725 unid ch 2 ne
CKTVt 2 SA CTV	0749 KOZK 21 MO 650	1934 KTVU 2 CA 1116
	KSNE 16 MO 576	24 Es 1112 KCBS 2 CA 855

July 1985

2 Es 1830-2000 unids 2-6	2101 CKTV 2 SA 1188	10 Es 1701 KGAN 2 IA 878
(East & northeast)	2130 KSRE 6 ND 1035	WBAV 2 WI 1125
2000 WTTV 4 IN 1059	2146 CKND 2 MB 1184	WFRV 5 WI 1125
2000 WUNCt 4 NC PBS	2205 CKX 5 MB	1758 WJBK 2 MI 1260
2100 WDIQ 2 AL 1008	2304 CKOS 5 SA 1238	11 tr 0725 KTVY 4 OK 380
2130 WDTN 2 OH 1152	10 Es 1701 KGAN 2 IA 878	KOKI 23 OK 486
2223 KTVU 2 CA 1116	WBAV 2 WI 1125	KGCT 41 OK 486
2224 KRONt 4 CA	WFRV 5 WI 1125	0729 KTCT 47 OK 486
KPIXT 5 CA	1758 WJBK 2 MI 1260	0749 KOZK 21 MO 650
3 Es 0047 KTVQ 2 MT 900	11 tr 0725 KTVY 4 OK 380	KSNE 16 MO 576
1100 KTVU 2 CA 1116	KOKI 23 OK 486	
1200 KRON 4 CA 1116	KGCT 41 OK 486	
KPIX 5 CA 1116	0729 KTCT 47 OK 486	
1025 WBBM 2 IL 1040	0749 KOZK 21 MO 650	
CKTVt 2 SA CTV	KSNE 16 MO 576	

Lots of Es this report and a few new ones too. KTCT-47 is owned by Oral Roberts University and is all religious programming. Another new translator seen on channel 61 with KOKH-25 and probably in southwestern Oklahoma. WIVB-4 was a nice surprise. Also, all the channel 5's - been looking for them awhile.

I bought two PA-4975's from R.F. Electronics. It will be awhile before I get them installed - several bird nests in both towers - I don't want to harm the young birds.

That's it for now. 73's, Jim

John Ebeling, 9209 Vincent Avenue South, Bloomington, MN 55431 (Prosit, MN DX) CDT

I have been at the cabin since June 28 and have been monitoring channel 2 nearly day long each day.

June 1985	1 Es 0930 KMID 2 TX	9 Es 1000 KMID 2 TX
24 Es 1530 CJBRT 2 PQ	2 Es 0900 WCBT 2 SC	1130 KOB 4 NM
1600 KUTV 2 UT	1100 WTVY 4 AL	1315 KNAZ 2 AZ
1646 unid 2 Ontario	1330 KALB 5 LA	1330 XEW 2
1800 KNAZ 2 AZ	1430 WMAB 2 MS	(Or KXPM-2 ?)
1805 WTVY 4 AL	WCBT 4 MS	10 Es 1730 KMID 2 TX
1830 WSB 2 GA	1500 +WDIQ 2 AL	1815 KMMZ 2 NM
1900 CJBFB# 2 SA	1507 WTVY 4 AL	12 Es 1234 KPRC 2 TX
1920 CFON 4 AB	1600 WSB 2 GA	13 Es 1145 WMAB 2 MS
30 Es 1755 CKO02 2 ON	1900 WDIQ 2 AL	(Test Pattern)
	WSB 2 GA	14 Es 1130-1200 WMAB 2 MS
	3 Es 1330 WKRN 2 TN	20 Es 1200 +WDIQ 2 AL
July 1985	7 Es 1900 KPRC 2 TX	(CB's first)
1 Es 0900 WFMY 2 NC	8 Es 1730 WRAL 5 NC	1230 unids chs 2, 4
WRAL 5 NC	2044 KMMZ 2 NM	21 Es 1100 KPRC 2 TX
(Early Es)	9 Es 0900 WBRZ 2 LA	1145 WBRZ 2 LA

John Ebeling (continued)

Re June 24 @ 1646 - Sudbury/North Bay weather given in English - Can not find calls nor could I read them.

Re June 24 @ 1900 - Either CJFB-1, Eastend or CJFB-2, Val Marie, Saskatchewan

Re July 4 @ 1330 - Large XEW call letters on a slide - no other ID's seen. XEPM
usually superimposes ID about 1/3 way down from the top.

I had FM Es on June 23 and July 1, 2, 8, 9, and 15.

William Draeb, Ellis St., Rt. #2, Kewaunee, WI 54216

CDT

Equipment: 7' Finco dish, B-T CMA-Ub preamp @ 93', .750 cable. Stacked Finco high band yagis with B-T AB-3 (tube type) preamp @ 100' with RG/11 cable. Second tower, 40', with Winegard CH-4026 (1c-band) and Winegard SC713 (hi-band) yagis. Hi-band uses AB-300 preamp. Zenith 14N22 table model 23" b&w (1971) with B-T BTU-2s UHF converter (used for UHF and also the stacked hi-band yagis) and Zenith 16J20 19" b&w (early 60's) (used with antennas on 40' tower), and Panasonic 9" b&w portable.

The second half of July showed a drop in Es activity, but tropo action picked up. Today, the TR-2 rotor on my 40 foot tower stopped working. I don't know why, it's only 35 years old - hi! Anyway, rather than fool with it today, I replaced it with a not-so-old Alliance T-45 which works OK except for the indicator which doesn't indicate. That's no handicap because I can watch the antennas turn from my window - so I know which way they're pointed.

Call	Frequency	Power	Class	Comments	Call	Frequency	Power	Class	Comments		
June 1985					7 tr 2220				17 tr 2008		
27 tr 0823	WCET	48 OH	400			KIII	3 TX		WKON	52 KY	
	WIII	64 OH	400			KPRCt	2 TX		WXIX	19 OH	
Es 1900	WESht	2 FL			2233	KMOLt	4 TX		WCVN	54 KY	
	WJXTt	4 FL			1225	KOBt	4 TX		WTVQ	36 KY	
28 Es 2006	KUTVt	2 UT			1225	WPBt	2 FL		WKHt	35 KY	
	KTVXt	4 UT				WEDUt	3 FL		WKLE	46 KY	
29 Es 0915	No time to watch					WTVJt	5 FL		2114	WKLE	46 KY
30 Es 1028	unids chs2-4 wsw					WFTVt	5 FL		18 tr 0728	WGRB	34 KY
1905	KXLft	4 MT				WCIX	6 FL			WDRB	41 KY
					1445	KONC	4 CO			WTVQ	36 KY
					1600	KOUS	4 MT			WKPC	15 KY
						KYUS	3 MT			WKYT	27 KY
July 1985					1640	WWAY	3 NC		1915	Same as in AM +	
1 Es 0900	No time to watch				1700	WCBD	2 SC			WKON	52 KY
1220	WML	4 LA				WCIV	4 SC			WLEX	18 KY
	WDSU	6 LA				WCSC	5 SC			Lexington UHF's	
1230	KBTX	3 TX				WCEC	6 NC			Cleveland UHF's	
1233	WABG	6 MS			1709	WUNC	4 NC			(Both in strong)	
1235	WKRG	5 AL				WRAL	5 NC		1922	WUTV	29 NY 445
1958	WESH	2 FL			1725	WFMYt	2 NC			WKEN	27 OH 420
	WEDU	3 FL				KWCt	4 WY			WPBO	42 OH
2020	WRBLt	3 GA			2145	KTVXt	4 UT			WCET	48 OH 400
	WDIQ	2 AL			2215	KUTVt	2 UT			WCVN	54 KY 407
2100	KIII	3 TX				WDRB	41 KY	437	2018	WGN	52 OH
	KBTX	3 TX			9 tr 0715	WTVQ	36 KY	473		WNAO	49 OH
2200	KPRC	2 TX				WPBO	42 OH			WNEO	45 OH
	KJAC	4 TX				WXIX	19 OH	400	2023	WSJP	51 OH
3 Es 1215	KREMt	2 WA			0723	WCET	48 OH	400		WOSU	34 OH
	KXLt	2 WA				WIII	64 OH	400		WITE	28 OH
1505	KOUS	4 MT			10 es 1935	unids chs 2, 3				WTVV	33 OH
	KOLF	4 MT			12 Es 2100	CKSat	2 AB			WOAC	67 OH
	KYUSt	3 MT				CFACt	2 AB		2054	WIII	64 OH
2200	KUTV	2 UT				CFRN	3 AB			WLJct	65 KY
	KTVX	4 UT				CFON	4 AB		2105	WFIE	14 IN
7 tr 0828	WGN	52 OH				CITL	4 AB			WHTT	25 IN
	Cleveland UHF's					unid channel 6			2108	WKSO	29 KY
1920	KPRCt	2 TX			2136	CBXt	5 AB		2123	WGB	53 KY
	KNMZt	2 NM				CBKAT2t	2 AB			WXIX	19 OH
	KENW	3 NM			2325	KWC	4 WY			WSCR	12 OH
	KAMrt	4 TX			13 ms 1200	unid channel	4 w		2158	WKBN	47 VA
2220	KBTX	3 TX			17 tr 0803	WCET	48 OH	400	2211	WKHA	35 KY

William Draeb (continued)

William Brice (Continued)				19 tr 2038 K66BV 66 MI (Detroit) SIN)				25 Es AM No time to watch			
July 1985	18 tr 2222	WPBY	33 WV	2111	WQSN	52 OH	26 tr 0740	W49AG	49 WI	(Bloomington WHLA-31)	
19 tr 1935	WSEE	35 PA	2155	WJBK	2 MI	28 Es 0800	WESH2	2 FL			
	1935	WJET	24 PA	(Over local WBAY)				WEDU2	3 FL		
	1941	WQLN	54 PA	2204	WKEB	27 OH 420	tr 1200	KFVS	12 MO	512	
	2038	WNFO	45 OH	2249	WBAO	49 OH 395		(Over WISN)			

Jeff Kadet, Box 20, Macomb, IL 61455 (309)-833-1809

CDT

Equipment: See August 1985 Western TV DX column.

[illegible]

Jeff Kadet (continued)

24 tr 0354 WPCBt 40 PA 28 tr 0514 OKC 14, 25
 0429 WJUB 43 OH 460
 19 tr 0611 WVirt 29 VA NBC 0432 WJKW 8 OH 475
 (EDT zone ese) (Station # 600)
 0830 Clarinda UHF's 0436-0506 TP's from
 21 tr 2200 WCLQ 61 OH 475 WAKR-23, WJIZ-25, 2200 =WTSF 61 KY 455
 22 tr 0312 W32AC 32 IN 270 WYTV-33, WFMJ-21, 2259 WBPY 33 WV 455
 (Muncie PTL) and WIOI-19 2325 WVAH 23 WV 475
 1800 KLJB 18 IA 75 28 tr 0230 K44AB 44 IA 33 29 tr 0034 WBFF 45 MD 735
 24 tr 0336 WPGH 53 PA 550 (Keokuk w/WISN-12) 0054 WDCAt 20(MD)
 (A good beacon for eastern tr) 0315 unid ch 3 KMTV? 30 Es 1100 XEPM 2 CH
 (REIMA at 300°)

Re July 4 @ 0121 - K30AM has all night music videos. They were 20 kHz offset from KDNL-30. They are only 70 miles from K30AL.

Re July 12 @ 1602 - K65BY - most wanted station. After eons of trying, in for about an hour - audio only.

Re July 18 @ 0441 - WHIZ-18 logging completes Ohio UHF except for WOUB-20 and some LPTV/xltras.

E skip took a nose dive the last half of July. I took down the 37 year old 70 foot elm tree just a few feet e/ese of my tower and tropo scatter has been increased from Indianapolis 40 and 59 (240 miles) to Dayton 45 (360 miles).

Getting WBFF-45 was a treat, and I think I also had WDCa-20, but couldn't ID much except that a religious show was in progress. They listed Jimmy Swaggart in the Washington Post as being on then, but I'll wait for a more satisfying ID sometime.

WCPN-49 is now using those call letters, but they are still parallel to WCIA-3 and still on reduced power. K40AI has been off the air for the past month, reason unknown. Some inspired programming noted on ETV's lately - Nebraska ETV carries SCTV and KETC-9 is carrying the Fugitive. 73.

Michael Parks, Route 1, Box 103, Amery, WI 54001

CDT

Equipment: Channel Master 1110 Quantum with Channel Master 0064C preamplifier and RG-11U at 28', Antennacraft P-7 with Winegard PA-4975 preamplifier and RG-11U at 33', Alliance HD-73 rotor, Winegard DA-8105 post-amplifier, Channel Master 7206 Hi "Q" trap, and Zenith Z1920W 19" color TV.

June 1985

20 Es 1453 XEPM 2 CH 1215 7 tr 2257 KCBR 17 IA 272
 28 Es 1033 KPRCt 2 TX 2301 Sioux City 14, 27
 KBTX 3 TX 1040 8 tr 0003 KGBT 8 NE 383
 KENW 3 NM 981 0008 K26AC 26 MN 188
 (Bemidji STV-LPTV)

July 1985

1 Es 1039 WESH 2 FL 1277
 1045 WBTV 3 NC 925
 1059 WUFTt 5 FL
 1131 WTVY 4 AL 1049
 2 Es 1031 WEART 3 FL ABC
 1040 WESH 2 FL 1277
 1042 WRBL 3 GA 976
 1057 WCTV 6 GA 1102
 1100 WUFT 5 FL 1217
 1122 WBRC 6 AL 872
 1158 WKRGt 5 AL CBS
 (20 kHz - KSTP)
 1216 WDSU 6 LA 1076
 1434 KMID 2 TX 1065
 (KTCA-2 off air)
 1529 WDSU 6 LA 1076
 3 Es 1526 KTVQ 2 MT 784
 6 tr 1114 KNMT 12 MN 161
 K18AI 18 MN 139
 (Grnd Rapids STV-LPTV)
 1116 KCBR 17 IA 272
 7 Es 2241 KPRC 2 TX 1095
 2244 KBTXt 3 TX
 tr 2250 K14AF 14 IA 147
 (Decorah KYIN-24)

8 tr 2154

WFLD 32 IL 337
 WNDU 16 IN 397
 2315 WFBN 66 IL 340
 WBBS 60 IL 337
 2319 W63AR 63 WI 58
 (Ladysmith KSTP- 5)
 2325 WSBT 22 IN 397
 2327 WRGT 45 OH 566
 (My first Ohio)
 2334 WCBT 2 SC 1094
 2339 WKFT 22 OH NBC
 WKJGt 33 IN NBC
 2344 W64AU 64 WI 160
 (Adams STV-LPTV)
 0036 WFFTt 55 IN
 2350 WPTAT 21 IN
 9 tr 0000 =WTLW 44 OH 523
 0003 WCGVt 24 WI
 WCIU 26 IL 337
 WKOW 27 WI 216
 0036 WBLNt 43 IL
 0050 KMEGt 14 IA
 0052 WISC 3 WI 216
 0101 WANET 15 IN
 0105 OKESD 8 SD 232
 0110 K14AD 14 MN 135
 (Willmar KSTP- 5)
 0111 KCCI 8 IA 272
 0118 KGAN 2 IA 239
 0122 WSPJt 51 OH 130°
 (Religious)

Western TV DX

Michael Parks (continued)

9 tr 0130 +WKOI 43 IN 538
 (Strange time for a sign/on)
 0132 WISN 12 WI 272
 0134 EWTVO 17 IL 269
 0205 WHO 13 IA 272
 (Over WEAU-13)
 0230 +WPWR 60 IL 337
 11 tr 2309 KCBJ 17 MO 446
 KTVV 3 MO 568
 12 tr 0006 KSNF 16 MO 586
 0010 KMTT 27 MO 568
 0012 KYPC 50 MO 453
 0014 KZKC 62 MO 453
 0016 WHO 13 IA 272
 0019 KSPR 33 MO 568
 0025 KCCI 8 IA 272
 0028 KCBR 17 IA 272
 0032 KSNM 27 KS
 0042 KSHB 41 MO 453
 0100 =KOLR 10 MO 568
 KGAT 2 IA CBS
 Es 0123 CFAC 2 AB 1072
 2236 CFAC 2 AB 1072
 13 tr 1144 Sioux City 14, 27
 1145 KHIN 36 IA 337
 1205 KCBR 17 IA 272
 (Over KTCI-17)
 1959 KSFY 13 SD 254
 2001 KESD 8 SD 232
 2008 K22AE 22 MN 131
 2048 KELO 11 SD CBS
 (20 kHz - WUSA)
 2230 KMEG 14 IA 287
 18 tr 0000 WEEK 25 IL 353
 WICS 20 IL 410
 0001 WTVt 17 IL 410
 0003 WRSP 55 IL 410
 0007 WMBD 31 IL 353
 0024 WFLD 32 IL 337
 WCIU 26 IL 337
 WBBS 60 IL 337
 0035 WFBN 66 IL 340
 0038 WFCF 38 IL 337
 0104 KGAT 2 IA
 0120 WBAY 2 WI 218
 0139 KCBR 17 IA 272
 (Very weak)
 2341 Willmar's 14, 44, 46, 48, 50 135
 2342 K42AN 42 MN 135
 (Willmar KITN-29)

Since this is a heavy reporting month, I have omitted a plethora of unids in order to conserve space. K22AB, New Ulm, MN, has dropped SPN and is running 24 hour a day news and video want ads. They have Journal-Vision "22" printed across the top of the screen. K28AE, Fairmont, MN, has done likewise and uses the headline NEWS SCOPE "28". Here in Wisconsin, W15AB in Rice Lake has been off the air since April 1.

WTCN-11 changed their call letters to WUSA on Independence Day. They seem to be very patriotic. They are constantly using the colors red, white, and blue. They also began broadcasting in stereo on or about that date. KITMA-23 has switched from ON-TV to SelectTV. They are also unscrambled weekdays from 1800 to 1900 during which time they carry Odyssey. 73, Mike

***** (I have also noted KITMA-23 unscrambled in the morning with Biz Net and Odyssey. I believe that the two LPTV's which you mention, K22AE and K28AE, were both off the air for some time. I am sorry that they were unable to continue operating with community events coverage, but I think we are going to see a lot of these programming adjustments. fm)

Nathaniel Ely, 1237 East Johnson St., #2, Madison, WI 53703 (608)-257-5220 CDT

Equipment: Quantum 1110, Spartan II VHF preamp (0061) from Chmstr; C.M. 7' dish with 4990 preamp at 61', 70'/30' runs of .412/RG-11 cable, H-D 73 rotor. Winegard DA-405 post amplifier (when locals off the air), 3 Channel Master 7206 "Hi Q" traps (UHF). Tower, QDMX MD-56 (free standing).

June 1985	8 tr 0819	W16AC 16 WI 205	12 tr 0507	0KDSK 5 MO 315
29 Es 1200	WPBT 2 FL 1305	(Land O'Lakes STV)		(Rare)
	WESH 2 FL 1090	0832 KC UHF's MO 400	0518	0KRCG 13 MO 320
30 Es 1029	KUTV 2 UT 1175	(41, 50, and 62)		(Snow free)
1229	KTVQ 2 MT 975	0844 K46AA 46 MN 270	0523	0KOLR 10 MO 465
1327	KMID 2 TX 1025	(St. James KTCA-2)		0KSNF 16 MO 490
1341	KNMZ 2 NM 1025	Willmar 46	13 tr 0143	KC 41, 50 MO 400
July 1985		Alexandria 36	0146	KBSI 23 MO 400
2 Es 1159	KJAC 4 TX 960	0855 KSMQ 15 MN	0212	KITC 10 xtrs on channels 74, 83
	KALB 5 LA 825	(Over WMTV-1511)		
1200	WABG 6 MS 700	0859 K25AA 25 IA 335	14 Es 1259	WGBH 2 MA 970
	(State # 37)	(Rock Rapids KSIN-27)		KNAZ 2 AZ 1325
1206	WBRZt 2 LA	0907 K58AF 58 MN 295	18 tr 0055	KOLN 10 NE 410
1207	WDSUt 6 LA	(Windom KAAL-6)		0104 KETV 7 NE 355
1216	WML t 4 LA	0909 K56AH 56 MN 295		(Automated PSA's with music)
1235	WCBZ 2 SC 890	(Windom KMSP-9)	0113	KSPR 33 MO 465
1252	WCIV 4 SC 890	0913 K48AH 48 MN 315	1015	WGRB 34 KY 460
1258	WCVB 5 MA 970	(Willmar KMSP-9)	1016	WTVQ 36 KY 430
1302	WESH 2 FL 1090	0915 K50AG 50 MN 315	1030	WSEN 47 WV 555
1334	KWGN 2 CO 860	(Willmar WUSA-11)		(State # 38)
1335	KNMZ 2 NM 1025	0920 K68BJ 68 MN 300	1049	WCAY 30 TN 500
1358	KPRC 2 TX 975	(Redwood Falls WUSA-11)	1050	WLONt 19 KY 400
	KCNC 4 CO 860	0921 K58AS 58 MN 300	1102	WDRB 41 KY 400
3 Es 1313	unid ch 2 French	(Redwood Falls KELO-11)	1130	WMAVt 18 MS
1334	unid ch 2 e PBS	0929 K42AO 42 MN 370		WMTN 9 IN 375
tr 1400	KLJB 18 IA 130	(Alexandria KWCM-10)		(Rare)
	(Testing 3/4 CB)	0932 K59BT 59 MN 390	25 Es 0936	WJXT 4 FL 975
Es 1617	CFAC 2 AB 1325	(Donnelly KMSP-9)	1029	WML 4 LA 895
5 au 1910	hash to ch 10	0933 unid channel 61	1030	WPTV 5 FL 1280
7 tr 0727	KC UHF's MO 400	0934 K69DA 69 MN 315	1059	WUFT 5 FL 1015
	(41, 50, and 62)	(Little Falls KSTP-5)	1100	WCIX 6 FL 1305
	Also Ottumwa 33, IL 51, 68, Cincy 48, Evansville 14	0959 K40AA 40 MN 370	1130	WCIV 4 SC 890
		(Alexandria KTHI-11)	1200	WPBT 2 FL 1305
0859	KSPR 33 MO 465	Es 2039 KTVQ 2 MT 975		WESH 2 FL 1090
Es 1027	unids ch 2 (2)	2200 KBCI 2 ID 1360	26 tr Early	W39AA 39 IN 245
1531	CJBRT 2 PQ 1040	9 tr 0717 Dayton & Cincy U		(Fort Wayne WFIY-20)
1834	XEPM 2 CH 1250	WIII-64 not STV	28 tr 0035	KOLN 10 NE 410
1839	KDBC 4 TX 1250	0742 WSPJ 51 OH 420		K20AD 20 MN 315
1900	KMID 2 TX 1025	0744 WCLQ 61 OH 400		(Worthington KSTP-5)
1917	KNMZ 2 NM 1025	0750 WOSU 34 OH 405	0117	KBGT 8 NE 465
2120	KPRC 2 TX 975	WITE 28 OH 405	0120	KELO 11 SD 400
2127	WPBTt 2 FL	0757 WPOB 42 OH 420	0200-0315	MN xtrs
8 tr 0741	KDSO 16 SD 485	0808 WUAB 43 OH 400		Willmar 14, 48, Fairmont 28, Marshall 30, St. James 44, 46, 48, 52, and 54 (46 popped on w/ WBAV-2 CB's)
	K34AF 34 MN 370	0842 WTVQ 36 KY 430	29 tr 0200	WIAS 11 KY 400
	(Alexandria LPTV)	WLEX 18 KY 430	2141	KOLN 10 NE 410
0741-0803	St James 48, 50, 52, 54 270	1s 2143-2230 string bursts		KUONT 12 NE 465
	Willmar 14	Dyton 45, Cincy 19, 48, Muncie 49, & Richmond 43	2145	KBGT 8 NE 465
0803	K42AY 42 MN 270	12 tr 0110	2207	KELO 11 SD 400
	(St. James KITN-29)	0112 KSPR 33 MO 465		WUAB 43 OH 400
0800	WUSA-11 MN w/TCN	(Sign/off 0306)		WCLQ 61 OH 400
0805	K22AE 22 MN 275	(Rare)		WQLN 54 PA 465
	(JOURNAL VISION)	0229 KFVS 12 MO 400	0719	CKCO3 42 ON 485
	K33AB 33 IA 315	0308 KMOX 4 MO 315	0725	W63AR 63 WI 180
	(Sibley KSIN-27)			(Ladysmith KSTP-5)
0808	Iron Mtn xtrs	0427 WUAB 43 OH 400	0800	W57AS 57 WI 220
	43, 47, 55, 57, 59, 61, 63, 65, 67, 69, 72. 65= Spectrum 67= VH-1	0441 WAKR 23 OH 415		(Spooner KSTP-5)
		0500 W63AR 63 WI 180		
		+KSPR 33 MO 465		
		0506 K33AA 33 IA		
		(Ottumwa w/WISN-12)		

Nathaniel Ely (continued)

August 1985

1 Es 0130-	unids ch 2 (3)	2 tr 0130	K33AA 33 IA 240	2 tr 0244	W76AI 76 MI 215
	(Rough like AE, but only on 2)		(Ottumwa w/WISN-12)		(Escanaba w/WITI-6)
Es 1300	KPRC 2 TX 975		KSHB 41 MO 400		0530 Danville 68 270
1434	KMID 2 TX 1025		0200 W72AJ 72 MI 215		0624 WJPT 14 IL 240
2 tr 0000	WOIO 19 OH 400		(Escanaba WLUK-11)		0640 W55BY 65 IA 155
	(Also chs 43, 61)		(Also seen on 73 with WISN-12)		(Waterloo PTL)
0117	W56AB 56 WI 50		0233 CBLFT23 26 ON 410		0715 W67AC 67 WI 50
	(Darlington WMTV-15)		0233-0250 Iron Mtn MI		(Darlington WHA -21)
			xtrs - all but ch 55 - 43 open carrier		0715 W69AB 69 WI 50
					(Darlington WKOW-27)
					0745 CBLFT8 61 ON 440

Trops-wise, there have been a lot of translators and LPTV's seen this month. I was surprised to note that the Darlington translators are on the air. The heading for Darlington is very close to my local UHF's (no man's land), and I had assumed that what I had seen before were local images.

There are two new KSTP-5 translators in Wisconsin never noted before: W63AR in Ladysmith and W57AS in Spooner. Both are "short on vitamins." Also, W16AC in Land O'Lakes, Wisconsin, is on the air with STV.

Two LPTV's in Minnesota seem to have been relegated to nothing more than fancy electronic billboards: K22AE in New Ulm now with "Journal Vision" and K28AE in Fairmont with "News Scoop 28". I think both had been carrying SPN previously.

I also note K42AV in St. James carrying KITN-29 (not listed in the new translator guide) and K42AO in Alexandria carrying KWCM-10 (listed in the translator guide as an LPTV).

E skip-wise, things seem to have slacked off a bit or the openings have shifted into the evening hours when I am normally at work.

The call letters for CJBRT-2 were both heard and seen. To make things more confusing, they ran a promo for CJBRT radio.

My plans for my UHF system have stalled out. The only thing I'm waiting for is delivery of a new seven foot Channel Master dish. It's been on order since March. And so it goes....

73, Nate

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58103

CDT

Equipment: VHF: Broadmoor 9" black & white, Winegard CS-4053; UHF: Teknika 6510 tuner, Winegard CH-9095, Blonder-Tongue CMA-Uc pre-amp; Alliance rotor.

June 1985	11 tr 2330	KWWL 7 IA 395	13 tr 0313	KSHB 41 MO 550
30 Es 1058	KNMZ 2 NM 915	12 Es 1725	unid ch 2 French	0333 KCTV 5 MO 550
	1100 KPRC 2 TX 1195		1841 CHBC 2 BC 1060	0625 unid channel 33
	1138 unid ch 2 Mexico		1843 CFAC 2 AB 840	0628 KETV 7 NE 385
	1200 KPRC 2 TX 1195		2100 WRAL 5 NC 1215	0630 KESD 8 SD 175
	1300 KMID 2 TX 1060		(MUF 95.1-2147)	0632 KXSIN 27 IA 300
July 1985			2210 unid ch 2 Canada	0633AB 33 IA 245
2 Es 2028	unid ch 2 NBC		2213 unid ch 3 Canada	(Sibley KSIN-27)
	2134 WSB 2 GA 1115		(Ontario area)	0636 KHIN 36 IA 390
8 tr 0243	WHO 13 IA 385		2229 CFAC 2 AB 840	0636 K25AA 25 IA 245
	0528 WKBT 8 WI 325	13 tr 0029	K28AP 28 NE	(Rock Rapids KSIN-27)
	0532 KITC 10 MN 310		(Neligh KOLN-10)	Es 1045 unid ch 2 ABC
	0533 WBAU 13 WI 320		0031 KBGT 8 NE 365	1046 unid ch 3 ABC
	0540 KAAL 6 MN 285		0047 K57BX 57 SD 275	tr 1313 KGANT 2 IA
	0600 +KRIN 32 IA 395		(Lake Andes KELO-11)	Es 1314 KNMZ 2 NM 915
	0627 K0DUB 40(WI) 425		0055 K24AA 24 NE 320	1317 KWWL 7 IA
Es (MUF 104.5 @ 1952- WV)			(Newport KOLN-10)	14 tr 0845 WKOW 27 WI 445
tr 2150	KCBR 17 IA 385		0056 W55BG 55 SD 260	0900 WQOW 18 WI 280
Es (MUF 104.7 @ 2225- CO)			(Wagner w/KTCA-2)	WXOW 19(MN) 340
	2300 KREX 5 CO 800		0100 =KMBG 14 IA 300	KCBR 17 IA 385
9 tr 0540	KBGT 8 NE 365		0104 KETV 7 NE 385	0905 K42AO 42 MN 90
	0600 KOLN 10 NE 420		0112 WQOW 6 NE 385	(Alexandria w/KOLN-10)
	0620 KETV 7 NE 385		0130 =KMTV 3 NE 385	15 Es 2036 unid ch 2 French
Es 1910	KTBS 3 LA 990		0154 KCAU 9 IA 300	2122 unid ch 3 CBS
11 tr 2254	unid ch 17 NBC e		0206 K34AJ 34 SD 230	2126 WFTV 2 NY 1095
	KCBR 17 IA 385		(Sioux Falls LPTV)	20 Es 1114 WFTV 2 NC 1150
	2328 KCCI 8 IA 385		(Odyssey 24 hrs)	1128 unid ch 2 ABC
			0300 WHO 13 IA 385	1159 WSB 2 GA 1115
			(Odyssey)	21 Es 1158 unid ch 3 NBC



Technical Topics

Exciting days are in store for the scientific community and those who study the ionosphere. On July 12, the Shuttle orbiter Challenger will host the busy schedule of Spacelab 2, a manned continuation of the ionospheric research begun with Spacelab 1 in 1983. There will be experiments, 14 categories over a 160-hour period, in atmospheric physics, high-energy astrophysics, infrared astronomy, life sciences, materials processing, plasma physics, solar physics, and technology research.

Flight 51F, completely dedicated to interactive experiments with the Earth's plasma, promises to be an interesting mission. Two components of the Spacelab, the Plasma Diagnostics Package (PDP) and the Vehicle Charging and Potential (VCAP) pallet, will be of particular interest to WYDA'ers. On Spacelab 1, the VCAP made use of an electron gun to prick the upper ionosphere, while the PDP monitored the reactions. Among those things scientists want to specifically know more about are:

--Observations that the body of the shuttle orbiter affects the ionosphere much like a comet, leaving behind a trail of ionized particles...

--Why holes are formed in the ionosphere when rockets lift off. (Skylab, launched by a Saturn V rocket, was noted to have made a hole over 1,000 miles wide that lasted several hours.) While this effect is exactly the opposite of what a VHF DX'er would want, radio astronomers are looking forward to the prospect of being able to "see" space without the radio interference of the ionosphere. Indeed, the idea is being kicked around to deliberately generate holes over radio observatories...

--Radio propagation in the plasma. Specifically, at Very Low Frequencies (VLF), and even the 2 and 10 meter ham bands.

--That objects in the plasma acquire a very strong charge. Structures like the Orbiter can develop a potential gradient of several thousand volts from one end to the other. This effect is a potential health concern, but also holds promise for the generation of electrical power...

--The visible glow that the exposed surfaces of the orbiter sometimes take on in flight...

VCAP experiments will run continuously during the seven day mission. An electron generator will simulate the particle beams that emanate from the sun, travel along the Earth's magnetic field lines, and often generate aurorae upon colliding with the upper atmosphere. By injecting particles in controlled quantities (to simulate natural storms) and observing how the plasma changes (with the PDP, hopefully we can figure out what normally disturbs the ionosphere which, in turn, affects climate and radio communications. (An auroral display of about 3 hours involves the discharge of 9 trillion kWh of electricity!) An electron generator has two ports which can produce beam currents of 50 or 100 mA, and a maximum power of about 100 W. The gun can be fired at a rapid rate to produce VLF radio. Many are curious if the gun thus operated will be an efficient radiating antenna, so radio sensors on board the shuttle and on the ground will be "DX'ing" this 100W transmitter.

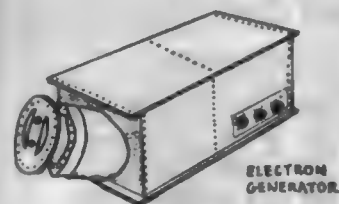
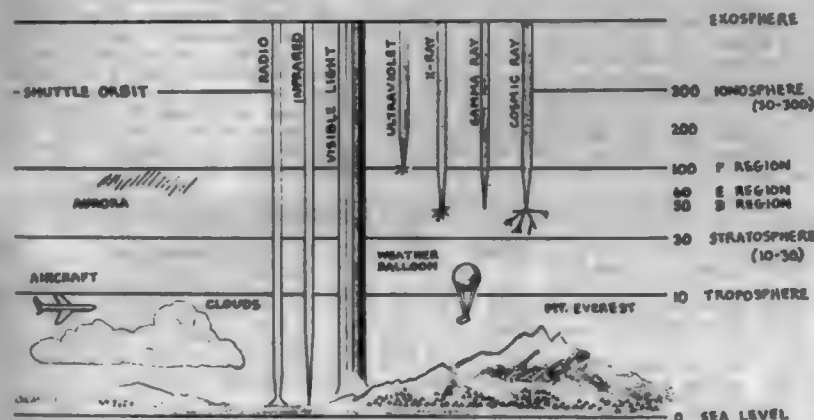
The PDP has the advantage of being ejectable--that is, it will be released from the shuttle cargo bay to float in orbit on its own. Challenger may then move about the PDP "satellite." Since the VCAP is on board and the sensing devices are on the PDP, the engineers hope to get a good feeling of where the electron beams and radio waves are going. There are instruments in the PDP that measure magnetic flux, electric and magnetic strengths, and ion charges, among other things, and some probes will be directly exposed to space. Measurements will be taken anywhere from 6 feet to 1/3 mile from the orbiter, and further experiments will be performed with the PDP moved about by the RMS (Remote Manipulator System--the large "robot" arm seen along the cargo bay of the shuttle.)

One of the more significant plasma experiments will call for the orbiter and the PDP (free-floating) to be lined up along the same magnetic field line. It is expected that any noise or disturbance generated at the shuttle orbiter will be conducted along the field line to the PDP...the "Flux Tube Connection."

Plasma depletion studies will be effected by purposely firing the Challenger's thrusters at specific locations and monitoring the conditions of the ionosphere. The thrusters will release as much as 3,000 lbs of exhaust vapors (mostly water) which, in a chemical reaction, leaves vast holes in the ionosphere. The Millstone Hill Observatory (Westford, MA) will monitor changes in the ionospheric electron count, plasma drift, and plasma temperature during the daytime firings with a 46 m antenna. In Arecibo, PR, a 300 m radar will monitor changes in electron density. Stanford University's VLF facility (Roberval, PQ) will attempt to send VLF radio signals to Siple Station, Antarctica, to keep tabs on propagation during the formation of holes. Similar monitorings of the holes will be made at the US Army Kwajalein Missile Range. Further, the Reber Observatory (Hobart, Tasmania) will watch their (1-5 MHz) low-frequency radio astronomy equipment closely to see if the holes will allow better viewing of distant galaxies.

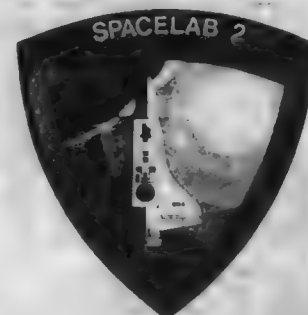
Public access to Spacelab 2 experiments is very good. TVRO owners may watch live shuttle TV 24 hours a day (sure beats MTV!) during the whole mission via Satcom F1R, Transponder 18 (139° W. Longitude, 4.060 GHz). Marshall Space Center (Huntsville, AL) will broadcast mission audio and commentary on 173.0250 MHz, FM. No doubt those in range of other NASA centers will also have VHF channels available. (Imagine hearing shuttle commentary via satellite and tropo from Huntsville to a QTH 800 miles away...) An excellent and colorful (though untechnical) 41-page book about Spacelab 2 is available as EP-217 from Public Affairs Office/CA01, NASA, Marshall Space Flight Center, AL 35812, or from the US Government Printing Office.

12 Tim McVey
Rt. 3 - Box 568
Bolivar, TN 38008-9556



ELECTRON GENERATOR

MISSION SIF INSIGNIA →



SOUTHERN FM DX

Danny Buntin
1312 N. Skyline
Stillwater, OK 74075

DEADLINE: 10th

For FM DX reporters from: AL, AR, AZ, CA, CC, DC, DE, FL, GA, KS, KY, LA, MD, NC, NM, NV, OK, SC, TN, TX, UT, VA & WV. Happy DXing!

Tim McVey, Route 3, Box 568, Bolivar, TN 38008 CDT

6/8 Es
1035 KRWN 92.9 NM Farmington, m, 1079
"Grown FM 93"
1038 KRSJ 100.5 CO Durango, k 1061
1042 KISZ 97.9 CC Cortez, r, "Z-98" 1100
1100 KISR, my "barometer" station to the w.
1119 KATT 100.5 OK Oklahoma City, for 491
the next 13 hrs.
1155 KMJI 100.3 CO Denver, mr "Magic-100"
also 89.3, 90.1, 95.7, 98.5, 99.5
1200 KMTS 92.7 CO Glenwood Springs, k 1044
1202 KUIN 92.7 UT Vernal, m, ads ment.
Vernal under KMTS 1160
1205 KQZR 102.5 CO Craig 1094
1207 KOOL 94.5 AZ Phoenix, mr, jingle 1321
1210 KBCC 97.3 CO Boulder 933
1212 KNIX 102.5 AZ Phoenix took over KQZR
in the capture ratio.. phenomena that
still amazes em.
1230 KSIT 104.5 WY Rock Springs, with 1165
ads walked right in over local WRVR!

6/8 Es
1236 KQSW 96.5 WY Rock Springs
1240 Es fade out, now tr
tr
1243 KKNG 92.5 OK OKG
1300-1900 KKNG and KATT only activity heard
1955 KQMO 94.9 MO Kansas City, k "KC-95" 415
2056 KQWK 96.9 KS Pittsburg-Joplin ID, 350
"Quick Rock 97" with a "No Madonna Weekend"--
great idea!
2141 KINB 107.3 OK Poteau, k (tent, no calls
heard)(KINB not in \$ when I just checked, DB.)
2150 KAYI 106.9 OK Muskogee, r 361
2159 KDLE 99.5 OK Henrietta-Okmulgee, ID, k
6/9 tr
0004 KCMA 106.1 OK Owasso, b 392
0015 most Tulsa stns. in on FM, UHF
0019 KCRX 93.5 MO Greenfield, p 300
6/11 Es
1115 short cloud to Salt Lake & Craig, CO1299
7/2 Es
1145 short lived cloud to Four Corners CO, NM, AZ

Es hasn't developed much this summer for the period of June and the first half of July, Have probably missed much by being away from my equipment through the week. (Tim, I doubt that you missed much of anything. I have checked the FM just about every evening this summer and some of the mornings and found very little DX, especially since early July. DB) I've had complaints that Memphis channels 3 and 5 are often unwatchable during the soaps. Actually, TV-2 has had something every day in June almost, but the MUF just hasn't worked up as well. (I've noticed the same. DB.) Am hoping for some good tropo in August... which I almost need more than Es anyway (especially to the ne and to the Carolinas). Enjoyed all the ACR stations in OK, wish some of it could be in TN permanently. (ACR on its way out in OK. DB) Antenna and rotor, Flinco FM-5 located 19' AG. 73's.

Jim Pizzi, P. O. Box 1778, Lovington, NM 88260 (505)396-3251 5/5 to 7/3 MDT

5/5 MS
1123 KLSS 106.1 IA Mason City, "...at the
Mason City speedway...Iowas..." 900
5/6 tr
2324 KVOQ 98.3 TX Lorenzo, new to air 120
\$r, "The Q-98FM", Lubbock "rim shotter"
5/19 Es
2245 KPQX 92.5 MT Havre, k "QX-92-FM" 1103
2246 KLFM 92.9 MT Great Falls, k, cl 1062
2249 CKUA3 97.3 AT Medicine Hat, Reggae 1206
2249 CKUA2 99.3 AT Lethbridge " // 1215
2251 KCTB 192.7 MT Cut Bank, 4 1166
2315 KLYZ 92.5 WY Powell, r, "Classy FM" 1166
2318 KMGW 94.5 MT Great Falls, r 1062
2328 CJAY 92.1 AT Calgary, CJ-92, j 1328
5/23 Es
0821 WKMM 92.1 MI Harrison, k, ads 1229
WMGL 91.7 MI Alpena, c, tent
0828 WBLV 90.3 MI Twin Lake, c, tent
0830 WSAE 89.3 MI Spring Arbor, g tent.
0830 WPHN 90.5 MI Gaylord, g 1280
0837 WCXT 105.3 MI Hart, "X-105" 1157
5/26 Es
2303 WMBI 90.1 IL Chicago, tent, g
5/27 tr
0028 KUHF 88.7 TX Houston, j 530
0050 KIXS 93.3 TX Killeen, calls 353
0053 KESI 106.7 TX Terrell Hills, ex 106.3
0055 KRBE 104.1 TX Houston, calls

5/27 Es
0928 XHNY 93.5 GTO Irapuato, ads 840
0930 XHAI 92.5 MEX Toluca, ID
0950 XHCE 95.5 QRO Queretaro, Estereo Mundo 840
0951 XHSH 95.3 DF, Amistad, EL 960
0954 XERC 97.7 DF "radio hits"
0955 XHPOP 99.3 DF
0956 XHSON 100.9 " r
plus DF 88.1, 88.9, 89.7, 90.5
5/29 tr
0810 KRBE 104.1 Houston + others in area
5/30 Es
1827 XHME 89.5 Puerto Vallarta, ads 840
1827 UNID 88.5 NFR plus other NFR's
2025 KCBX 90.1 CA San Luis Obispo, tent, c
6/10 Es
2007 WCLK 91.9 GA Atlanta 1098
2010 UNID's up to 90.7, gone by 2020
2059 WBLI 91.7 IL Champaign, calls, g 959
2101 WSSR 91.9 IL Springfield, wx 878
2101 WLLI 90.9 IL Urbana, phone # 965
2104 WUCM 91.7 MI Ann Arbor, ID 1229
2106 WDFG 97.7 IL Effingham, g 923
2109 WNDH 103.1 OH Napoleon, calls 1188
2118 WBLV 90.3 MI Twin Lake, calls 1148
6/12 Es
1903-1905 UNID's, ne
6/16 tr
0741 KXRX 106.5 TX Galveston, ID, cont.... 580

SOUTHERN FM DX

Fizzi, cont.

SEPTEMBER 1985

6/16 tr
0741 KJCJ 106.9 TX Conroe 490
KJUL 107.7 TX Sinton 485
0758 KNCN 90.9 TX Dallas, g 368
0800 KCKF 90.9 OK Edmond, ID, rare, full
quieting 385
0805 KETR 88.9 TX Commerce, ID 426
0837 KRRG 98.1 TX Laredo, ads FM-98 460
0853 KFLZ 107.1 TX Bishop, ID 0900 in EE510
1014 KRBE 104.1 TX Houston, calls 530
6/17 tr
0843 KJNE 102.5 TX Hillsboro, calls k, 380
6/20 Es
1309 KARS 92.5 MN Minneapolis, calls, 968
in car, no time to DX, rats.
6/21 Es
2010 KZIN 96.3 MT Shelby, tent., r
2011 KLFM 92.9 MT Great Falls, tent. k
6/23 Es
1900-2000 UNID's 88.7, 89.7, 91.1 n. east
6/24 Es
1410 WKWK 97.3 WV Wheeling, calls, 1328
on lunch hr. in car
1412 WQBE 97.5 WV Charleston, calls, no
time to DX. 1256
6/25 Es
1450 XHM 88.9 DF 960
6/28 Es
0853 WITL 100.7 MI Lansing, k "Whittle", ads
0858 KDDB 92.5 CA Paso Robles, ads, k 1012
0905 UNID 98.1 n. east "FM-98", ment. Det.
1032 UNID 90.5 west? n. east? "The classic
experience, FM 90.5"
1034 KFAC 92.3 CA Los Angeles, tent. c
1101 WPAP 92.5 FL Panama City, calls 1071
1119 WKIR 104.1 TN Jackson, k, "104 KIR"
1128 UNID 103.5 n. east, ment. "TN Valley"
1130 WBYN 89.7 TN Chattanooga, ID 1035
1131 WMBW 88.9 TN Chattanooga, calls 1035
all of above on car FM
6/30 Es
1008 KXPR 90.9 CA Sacramento, "FM 91", 1071
wx
1009 KAER 92.5 " " k
1010 KCTC 96.1 " b
1012 KSAC 96.9
1014 KEBR 100.5 " g
1017 KPOP 93.5 CA Roseville, k-pop 1071
1022 KGHQ 91.1 CA Chico, SS mx 1139
1023 UNID 92.7 CA ment. "Hawthorne &
Yerington in NV"
1026 KDVS 90.3 CA Davis, soul/g 1107
1028 KBBF 89.1 CA Santa Rosa 1143
1031 KQSD 88.5 CA SF 1116
1034 KRQR 97.3 CA "
1035 KNSS 98.1 NV Carson City, k, calls
1037 KQZZ 105.7 NV Reno, r 1008
1038 KSRN 104.5 NV Reno, EL, ads
1042 KNAA 100.9 NV Sparks, tent. r
1042 KPMR 100.1 CA Stockton, calls 1049
1045 KFTG 101.1 CA Fresno, tent. r oldies
1051 KNVR 96.7 CA Paradise, ads 1139
1052 KUNR 88.7 NV Reno, tent. c
1058 KALW 91.7 CA San Francisco, Pac- 1116
Ed. net.
1104 KCJH 90.1 CA Stockton, g 1049
1105 KYBB 100.9 CA San Rafael, B101, r 1080
7/2 tr
1901 WFSU 91.5 FL Tallahassee, ID 1233
1921 WAVV 96.9 FL Jacksonville, 97 Wave

7/2 Es
1922 UNID 97.7 east "V-97.7" WGLV on in FL?
WGLF 104.1 FL Tallahassee, tent. EL
WHLY 106.7 FL Leesburg, tent., r
1927 WDIK 100.3 FL Orlando, tent. r
1931 WCIE 91.1 FL Lakeland, calls 1337
1935 UNID 88.5 east, "Rock 88" ph# 451-1644
2034 UNID 88.9 n. east, r
7/3 Es
1136 KFFE 93.7 CA Fresno, y-94, r 959
1138 KOSO 93.1 CA Patterson, tent., r
1140 KLZE 97.7 CA Los Altos, tent., EL
1141 KNAX 97.9 CA Fresno, calls 959
1142 KGNU 102.7 CA Fresno, ads
1144 KFSR 90.7 CA Fresno, strange mx
1148 KBAY 100.3 CA San Jose, b 1080
1149 KYUU 99.7 CA S. F., r 1116
1154 KTED 96.7 CA Fowler, g, k-Ted" 955
"Stereo Love 97"
1156 KLZE 97.7 CA Los Altos, "classey" m 1090
1159 KQSE 93.1 CA Patterson, ID + "KO-93"
1202 KMGX 103.7 CA Hanford, ID "Magic 103" 985
1206 KYNO 95.7 CA Fresno, tent. r u/over KFER
7/7 Es
0957 WQJB 88.9 WI Hayward 1071
0958 KWIT 90.3 IA Sioux City 747
1006 KXLV 105.5 MN Cambridge, calls 1013
1009 UNID 103.5 north to n.e., SS (not Mexico)
1029 KQRS 92.5 MN Minneapolis, calls 968
1031 KPMC 106.5 MN Fairmont, calls 855
1032 WLOL 99.5 MN Minneapolis, calls 968
1035 WLTE 102.9 " " "W-Lite"
1037 KDWB 101.3 Richmond, tent. r
1038 KKWS 105.9 Wadena, k "Superstation" ads
1039 KLIZ 107.5 " Brainerd, ad 1018
1044 KLIN 107.3 NE Lincoln, ID 644
1046 KICD 107.7 IA Spencer, calls, k 810
1047 KROC 106.9 MN Rochester, calls 945
1050 KNXR 97.5 MN Rochester, ads 945
1051 UNID 92.1 north "U-92"
1056 KKSBN 89.1 ON Fort Francis, FF 1173
1103 KLQP 92.1 MN Madison, wx, calls 900
1104 KKYA 93.1 SD Yankton, "KA-93 in Yankton"
1118 UNID 103.1 north, tri-stae wx (ND, SD, MN)
1118 KWS 102.9 SD Sisseton, wx, B-103 923
1122 KBRF 103.3 MN Fergus Falls, wx "FM-103"
1123 KLTG 105.1 MN Breckenridge, ads 968
1126 KQRN 107.3 SD Mitchell, local nx, ment.
Lake Mitchell
7/8 Es
2106 CFMQ 92.1 SK Regina, r, Q, Q-92 1188
2116 KHHT 97.1 ND Minot, k-Hit 1035
2118 KYYZ 96.1 ND Williston, tent. r
2124 CBWW 105.3 MAN Baldy Mt. 1238
2124 CBKFM 91.9 SK Bellefleur, FF
2125 CKIT 104.9 SD Regina, EL 1188
2134 KLTG 93.7 ND Minot, z-94, r 1035
2143 CWS 92.7 MAN Brandon, c 1157
KLTG 93.7 ND Minot, z-94, r 1035
2144 KCSBB 99.5 " FF
2146 WBYV 97.9 " same as CBWW
2206 CBWZ 104.3 MAN Fairford, same as CBWW
and CBWW
2211 UNID 88.9 north, jazz
2254 AEYA 88.5 ND Belcourt, tent., r
7/10 tr
1102 KSMG 105.3 TX Seguin, calls 410
Es
1702-5 UNID's 90.9 c, 89.3 c
1705 WRBT 90.3 WI Ashkosh, calls 1080
cont.....

7/13 Es
0727 WMKY 90.3 KY Morehead, nx 1161
0802 WIAN 90.1 IN Indianapolis, wx, ID 1059
7/17 Es
1005 KPQX 92.5 MT Havre, WX country, wx
1010 CKUA3 97.3 AT Medicine Hat, tent. c
1015 KBIT 102.9 MT Billings, calls 900
1025 KMCN 92.5 MT Miles City, calls, r, j
1030 KEYA 88.5 ND Belcourt, calls 1095
1030-1047 unID's 88.3, 89.1 91.7 c, 93.5 r,
93.3 r, 95.7
1059 KMFR 88.9 ND Monot, ID 1035
7/20 Es
0833-45 unID's to 91.9 c, n. east
7/28 Es
1005-30 unID's to 91.5 r

Three months of DX in this report. May had three good days of Es. June had lots of Es, some of which I missed because of work. July was very active with Es noted on 10 days. Needed openings to CA heard, still would like one to the L. A. area. Nothing new in FM in this area. Til next time, 73's.

Pat Dyer, 5315 Silvertip Dr., San Antonio, TX 78228 - 6/24 to 6/30 CST

6/24 Es
1206 KESD 88.3 SD Brookings, j 1020
1211 WERN 88.7 WI Madison 1065
1219 f/out
1305 KUSD 89.7 SD Vermillion 920
1311 WVPNT 88.5 WV Charleston 1150
1312 WCGC 96.5 WV Williamson, ID 1090
1313 WQBE 97.5 WV Charleston, area ads 1150
1316 WEMM 107.9 WV Huntington, ID 1100
1317 WXIL 95.1 WV Parkersburg, r 1180
1319 WMIX 94.1 IL Mount Vernon, wx, ID 820
1321 WJBM 104.1 IL Jerseyville, k 815
1322 WFBQ 94.7 IN Indianapolis, Q-95 995
1325 WNNW 98.5 MI Coldwater, ID, k 1125
1326 WTPJ 107.9 IN Indianapolis, ID 995
1329 WIAI 99.1 IL Danville, ID, ads 960
1331 WKFR 103.3 MI Battle Creek, ads 1155
1332 WOOD 105.7 MI Grand Rapids, ad 1175
1339 WAUR 107.9 IL Aurora, ID 1020
1341 MCGY 106.3 IL Gibson City, ID 950
1344 WTKN 104.9 WI Hartford, area ads 1110
1346 WBEV 92.5 WI West Bend, town ID 1115
1347 WQLR 106.5 MI Kalamazoo, ID, EL 1140
1348 WFMT 98.7 IL Chicago, area ad 1045
1349 WXXQ 98.5 IL Freeport, area ad 1000
1350 WLAJ 96.9 MI Grand Rapids, ID 1175
1353 WLS 94.7 IL Chicago, "LS", wx 1045
1353 WLRT 95.7 MI Grand Rapids, wx, W-Lite
1355 WDOR 93.9 WI Sturgeon Bay, wx, ID
1358 WAPL 105.7 WI Appleton, ID, r 1165
1400 WHOI 97.7 IL Monmouth, area ad 905
KNJY 97.7 IA Clinton, Y-98 970
1401 WLLR 101.3 IL East Moline, ID 945
1402 KAUS 99.9 MN Austin, local ads 1035
1405 KFKF 94.1 KS Kansas City, ID 700
1406 KMEM 96.7 MO Memphis, ID, r 850
1408 KLSX 106.1 IA Mason City, town ID 985
KCCQ 107.1 IA Ames, ads, ID 880
1410 WLST 95.1 WI Marinette, area ads 1230
1410 WILV 94.9 WI Baraboo, wx, ID 1085
1412 WYBR 104.9 IL Belvidere, ID 1035
1415 WJVM 94.3 IL Sterling, area ad 980
1416 WDUZ 98.5 WI Green Bay, local ad 1190
1418 KJXX 103.3 IA Pella, area ad 885
1419 WNGN 98.1 WI Madison, ad 1065
1421 WQJL 106.3 MI Menominee, ads 1235
1425 WKIQ 94.5 MI Holland, area ad 1150

cont.

7/28 Es
1030 WCLF 91.1 FL Lakeland, g 1337
1030 WFSU 91.5 FL Tallahassee, IL 1233
1049 KRVS 88.7 LA Lafayette, FF, cajun mx 684
1051 WBSN 89.1 LA New Orleans, tent. g
1054 WWOZ 90.7 LA New Orleans, tent., j
1056 KLSU 91.1 LA Baton Rouge, tent. reggae
1057 WNO 89.9 LA New Orleans, calls 819
7/30 Es
2007 KJSN 92.5 OR Klamath Falls, calls 1170
2025 WBBK 92.5 WI W. Bend, ads 1067
2027 WQML 91.7 MI Alpena 1328
2029 WXRO 95.3 WI Beaver Dam, calls 1053
2031 WMBN 96.3 MI Petosky, calls
2036 unID 92.3 n. east, baseball
2059 WMMU 90.1 MI Marquette, IL 1364
2136 KDSU 91.9 ND Fargo, tent. j

6/26 Es
1000 WUSF 89.7 FL Tampa, ID 985
WMB 89.3 FL Boynton Beach, ID 1150
1013 WDNAT 88.9 FL Miami, r 1150
1036 WFLAT 93.3 FL Tampa 985
1037 WGYL 93.5 FL Vero Beach, wx 1110
1040 WVMF 94.1 FL Lakeland, EL 1010
1044 WYNF 94.9 FL Tampa, "95-YNF" ID 985
1045 WFFY 92.5 FL Key West, area ad 1090
1057 WKFX 88.5 FL Sunrise, ID 1145
1059 WLRN 91.3 FL Miami, ID 1150
1111 WLYF 101.5 FL Miami, area ad 1150
1115 WRGI 93.5 FL Belle Glade, ID 1110
1126 WMMF 97.9 FL Palm Beach ID 1150
1139 WLVF 93.9 FL Miami Beach Love-94 1150
1204-1220 lull
1220-1230 R. Belize 88.9 Bze Belize City,
ID, psa's 1080
1301 TG-- 88.1 Gu Guatemala City, slogan
ID 1120
1311 TGRT 88.8 Gu Guatemala City,
country ID 1120
1312 TG-- 94.9 Gu Guatemala City, Sp. 1120
TG-- 98.6 Gu Guatemala City, Sp.
1335-50 lull, soon out
1425-1440 TGRT 88.8 (net ID)
unids to 88.9
6/27 Es
2116 TG-- 88.1 Gu Guatemala City 1120
6/28 Es
0751 CKSB 89.1 ON Fort Frances, Fr. 1350
tr
0810 KNFM 92.3 TX Midland, k 275
Es
0841 QBCN 20t 89.3 ON Thunder Bay, Fr. 1400
0848 WHWC 88.3 WI Menomonee, ID 1125
0855 WHSA 89.9 WI Brule, //88.3 1235
0859 KOSG 92.7 IA Osage, local wx 1005
0900 WQJB 88.9 WI Hayward ID 1205

6/28 Es
0901 WRFW 88.7 WI River Falls, wx 1110
0905 KQDS 94.9 MN Duluth, ID 1250
0908 WAKXT 98.9 MN Duluth 1250
0930 WIAL 94.1 WI Eau Claire, ads 1125
0952 WLST 95.1 WI Marinette, area ad 1230
0953 WNIET 97.1 IL Chicago, c 1045
0955 WKDD 95.1 IL Aurora, EL, ID 1020
0959 WSEJ 92.7 IL Arlington Heights, ID 1050
WAJF 93.5 IL Joliet, area ad 1015
1004 WBEZ 91.5 IL Chicago, c, ID 1045
1005 WYCA 92.3 IN Hammond, area wx 1040
1008 WSPT 97.9 WI Stevens Point, ID 1150
1010 WILV 94.9 WI Baraboo, ads, wx, ID 1085
1012 WDUZ 98.5 WI Green Bay, local ad 1190
1013 WAXL 97.7 WI Lancaster, ad 1020
1015 WDOR 93.9 WI Sturgeon Bay, area ad 1225
1021 WMT 96.5 IA Cedar Rapids, area wx 945
1022 WYCO 107.9 WI Wausau, ads, Y-108 1170
1028 WQLR 106.5 MI Kalamazoo, ID, wx 1140
WDBR 103.7 IL Springfield, ID 870
1030 WOOD 105.7 MI Grand Rapids, local ads
1031 WACF 98.5 IL Paris, area wx 930
1032 WKTI 94.5 WI Milwaukee, wx, ID 1100
1035 WSHW 99.7 IN Frankfort, area wx 1010
1037 WZUU 95.7 WI Milwaukee, wx, Z-95 1100
1039 WHBP 98.9 IL Rock Island, local ad 945
1050 KHAK 96.1 IA Cedar Rapids, local ad 945
1057 WCOV 97.1 WI Sparta, area ad 1085
1059 WIZM 93.3 WI La Crosse, ad, Z-93 1070
1059 WVCX 98.9 WI Tomah, ID, rel. 1100
1100 KOEL 92.3 IA Osceola, ID, k 985
1103 KXLU 88.9 CA Los Angeles, ID 1190
1127 KSBR 88.5 CA Mission Viejo, ID 1150
1134 WLLM 89.3 IL East Moline, ID 945
1154 KDOR 88.5 IA Sioux Center, ID 945
1158 f/out
2106-10 KFJMT 89.3 ND Grand Forks, swing 1240
6/30 Es
1123-26 KFJMT 89.3 ND Grand Forks 1240

A lot of Es here for a report just covering a few days. Some very productive days for ID's with many in only a few hours. Making both the Central States VHF Conference in Tulsa (July 25-28) and the WFFDA Convention in New Orleans (my first) the next weekend, didn't allow much time to get the reports more current. 73.

Danny Buntin, 1312 N. Skyline, Stillwater, OK 74075 CDT

7/17 Es
1015 KUNR 88.7 NV Reno 8/10 ex. gw
0001 KCMA 93.5 OK Tulsa, xlator 65
KCMA's (Owasso 106.1) new translator for Tulsa is actually situated well within the main station's primary service area, but while visiting in Tulsa I monitored both stations and had little trouble figuring out why the need for the Tulsa translator since wherever I drove in Tulsa main KCMA was always wracked by noise, possibly multipath. The noisy reception is made all the more unfortunate by the fact KCMA plays classical music. Around downtown Tulsa reception is even noisier, but the translator can't come to the rescue here; it's buried under overloading, so the translator seems to serve primarily south and east Tulsa. While driving in that part of town sometimes the translator was clearly the quieter signal, but at other times it was difficult to tell which signal was preferable for listening. A much better approach to better reception was recently made by KMYZ 104.5 Fryor-Tulsa when that station moved to a 1000+ tower and put up billboards in Tulsa, referring to itself as "New Quality Rock". Their on air advertising became heavily oriented toward Tulsa. A blatant rimshotter, I guess. The station seems to have a real clean car FM signal in Tulsa free of multipath and overload interference, at least where I drove. It also comes in excellently on my home tuner, and in fact heard a listener comment on the station for a promo that he got good car reception as far west as Stillwater. Until next month, 73.

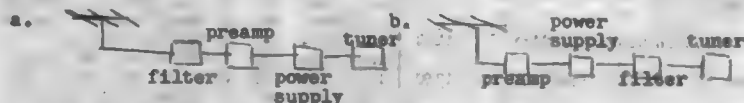
ANTENNA NEWS

Doug Dornbos
3009 Port Sheldon
Hudsonville, MI 49426

Dear Fellow Dx'er:

August 1985

Last month's column was filled with several omissions for which I apologise. Ed Frye wrote to me with pricing for the Winegard CPF-FM bandpass filter which I left out. Dealer price for the complete unit is \$44.35. I'll sell the one I've got for that and throw in the 5 attenuation pads @ no charge. Ed also mentioned the Channel Master bandpass filters. I did not include them in my study due to the fact that I feel they are overpriced for the average dx'er. Mr. Frye writes too that he recently went to install his Winegard CH-6065 fm antenna and when he pulled it out of the box he noted that some elements were riveted on the boom wrong. Even though the warranty had already expired, Winegard sent Ed a brand new CS-6065 as a replacement. Ed had only written to them for some advice mentioning the error and never asking for compensation. Winegard is to be commended for actions such as this and should be held up as an example of how companies with multi-megabuck ad budgets could more effectively use their funds. Thanks for the report Ed. Lastly, Frye brings up the point of where to put an ac-dc blocking device such as a filter when you are using a preamp. The device has to go somewhere else than between the power supply and preamp. If you can find a decent weather proof housing, it is best to do all filtering before the preamp up top the tower (fig. a). If this is out of the question, fig. b is the way to go.



By the way, an upside down, plastic, 2 or 3 liter soda pop bottle with the top off for drainage and coax passage works nicely for a weather housing. Just cut a big flap in one side to put your electronics through. Once the electronics are in and connected, the flap can be duct taped or siliconed back shut. Find a way to bracket it to the tower and you're all set.

Also contributing this month is Vernon Eaton from Benton Arkansas. He has got a killer fm system which is shown below. He has quad stacked The

no longer available Finco FM-5's as follows: Horizontal spacing is 118" or one wavelength. Vertical spacing is 60" or 1/2 wavelength. This closer spacing was used to decrease rotor strain as it was placed above the tower with considerable mast height above it. Also reducing the load on the rotor is a bearing a few feet above the rotor. Vernon gets up to 200 miles away on bad days with several stations per frequency on good days. His tower is of the crank-up variety so he can let her down when the wind gets going. Note the guy supports from the top of the mast to the ends of the H-frame. Strength is the biggest problem in many quad arrangements and this is a big help. If anyone would like to talk with Vernon, his # is 501-847-2066. His address is 82 Springhill acres, Benton, AR 72015.



Antenna News

page 2 August 1985

CES Report

My summer Consumer's Electronics Show report will not be as extensive as last year's due mainly to my hectic schedule at the show with TVRO taking up most of my time and leaving little for the fun stuff. Notable is that Grundig did not display there for the first time in many years and that was a bit of a disappointment to me as they have some very fine dx gear. One group I forgot about but usually stop to see is the Electronic Industries Association, the people responsible in a large part for putting on the show. They also put out 2 very nice interference handbooks showing interference symptoms and troubleshooting procedures. One booklet is for TV interference, the other is for audio system interference. I believe that you can have both for the asking by writing to the EIA, 2001 Eye St. NW Washington DC 20006. A worthwhile addition to your stack of references.

The only booth I really made a conscious effort to visit for dx reasons was the Magnum company's. I must say that I am always impressed with these folks and this year was a special treat. Besides their fine "Sleuth" preamps, they are now manufacturing a tuner model FT-101. For \$495 it has my vote as the outstanding product in its' class. On the face there is 1 knob (for tuning), 1 digital readout (for frequency), 5 switches (on-off, mono-stereo, afc on-off, mute on-off, if wide-narrow), and 3 meters (multipath, signal strength, and center tune). What a joy to see such useable equipment in the face of the myriads of hyperchromed hoopla coming in from the orient. Besides the high quality Canadian manufacturing, and the functional useability, the specs are quite good as you can see below. It will be interesting to get some field reports back on this one.

Specifications

Usable sensitivity (mono)	8.8 dBm/1.5µV	-3dB frequency response	20Hz - 16KHz
Usable sensitivity (stereo)	11.2 dBm/2.0µV	AM suppression ratio	60dB
Sensitivity - 50dB quieting (mono)	13.2 dBm/2.5µV	THD (mono)	wide 0.02%
Sensitivity - 50dB quieting (stereo)	34.0 dBm/100µV		narrow 0.05%
Capture Ratio (wide & narrow)	1.5 dB	THD (stereo)	wide 0.023%
Image rejection ratio	75 dB (or better)		narrow 0.050%
Signal-to-noise ratio - mono	75 dB	Stereo separation - wide	60dB @ 1 KHz
	73 dB		narrow 5dB from above

Alternate Channel atten.

wide 50 dB

narrow 83 dB

Adjacent Channel atten.

wide 8 dB

narrow 20 dB

(30 dB @ 107 MHz)

DIMENSIONS:

Cabinet

(in.) 3.65 (h) x 17.0 (w) x 13.0 (d)

(mm) 93 x 432 x 330

Front Panel

(in.) 3.56 (h) x 19.0 (w) - mm (93 x 483)

POWER REQUIREMENT: 120 vac. @ 75 watts.

WEIGHT: 11 lbs. (5 kg.)

Available in "Back Mount" configuration as model FT-101R

PRAYER IN THE VUD?

After watching the debate take place on religion in the VUD I want to say thank-you to everyone who wrote in showing support for my obvious viewpoint on the subject. The person though who I think really deserves credit is Mr. Alan Hyams who, after printing his initial view, proceeded to print several member's views that were in disharmony with his when he could have left a few out so that he did not appear as so much the minority. There are many church leaders I am ashamed to say, that could take a good lesson in honesty and justice from Mr. Hyams. Thank-you Alan for flooring such a controversial subject in your column. I apologise for taking the easy way out and putting this in my column instead of mailing it separately to you.

FM ANTENNAS (continued from June)

Omitted last column were several prices from the antenna specifications chart. Part of the problem with the prices is that some are shown as list and some as wholesale. Most of the consumer oriented stuff is at list while most of the cable oriented stuff is shown at approximate "user" price. Anyway, you can go back if you like and fill in these prices: the CADCO @ \$290, the BT YFM5 @ \$295, and the BT YFM10 @ \$520.

Now for my favorites! When shopping, I feel that everything should be compared with the cheapest available. This is polar opposite from what most salesmen try to get you to do. Therefore starting at the bottom, we have the GFM6 Antennacraft. It has to be worth its' price because it's the cheapest thing there. Spending a few more bucks for the R-3 doesn't give us much more gain, loses us a little f:b ratio, but gives us alot narrower of a beamwidth. It's worth the bucks in my opinion. Spending another \$17 gets us the Antennacraft GFM10 with 3dB more gain but a slight loss in the f:b ratio and beamwidth areas. Although these are important, 3dB is quite abit more signal so I feel that it's worth its' price. For \$13 more, we can have the baby Channel Master. Although this is a good antenna, I don't think its' performance will equal the GFM10. Neither do I feel that the value is really there for the QFM9 Jerrold (also being sold under the Magnum brand name). Going up to the Channel Master 4408 (stereo probe 9) seems to me to be the next logical step. This is typically regarded as the dxers delight in fm antennas. The reputation of the probe 9 is so strong that it has somewhat overshadowed the CS6065 Winegard which is also a fine product. The difference is of course the price, about 15% higher on the Winegard. I personally think that the narrower beamwidth of the Channel Master is of greater benefit than the higher f:b ratio and higher price of the CS6065 so I do not consider it (the Winegard) as an option. Neither do I consider the well built J55FM Jerrold, the fine YFM5 or YFM10 Blonder-Tongues as serious options. I discount these antennas because of their intent: They are superbly built to reduce long term maintenance costs on high towers where the cost of one climb can exceed the cost of the antenna. They also perform well but can be outperformed by less expensive models. The remaining antennas all offer something a bit unique. The Sitco MA5FM at \$214 does the Stereo Probe 9 one better but you'll notice alot more empty in your wallet. The CA8FM Sitco and the CADCO are for all practical purposes the same price. Although the CADCO has the best f:b ratio of the bunch, I would bypass it for the Sitco with its' super narrow directivity and excellent (as in humungus) gain.

It would now appear that we have our list of budget bracketed favorites all set BUT there are a whole set of antennas that we haven't considered. Those are the ones we get when we stack 2 or 4 of the antennas already discussed. This gives us several more antennas at roughly 2 and 4 times the prices already shown. Although we could spend alot of time on stacking procedure, I would be remiss if I did not point out that the VUD has had excellent articles dealing with this subject in the past. Most notable are the August 76 and Dec. 73 issues, and the superb article on stagger stacking by Bill Thompson in the June 82 issue. If you're going to stack, it would certainly be worth your while to consult these back issues. I have only the June 82 issue but maybe someone out there could run some copies off for those who wanted them. If there is enough demand, we can spend a couple of issues on stacking theory and practice. Without going into alot of theory this month though, we will assume that most dx'ers will stack pairs of antennas horizontally and 4 antennas in quad arrangement as shown in the earlier photo.

With horizontal stacking, a phenomenon takes place called pattern multiplication. Instead of the pickup patterns adding and subtracting from each other, they multiply and divide each other! This drastically and advantageously changes the pickup pattern especially the beamwidth of the main lobe. Although using wide beamwidth antennas in a stack will give considerable sidelobes, it is possible to get the frontal pickup lobe of even a dipole down to about 300 by horizontal stacking! Using narrow beamwidth antennas will not alter the stacked beamwidth by a great degree but will alter the sidelobe factor tremendously.

FM Antennas - cont.

Going back now to our budget bracketed favorites and adding in the "antennas" formed by dual and quad stacking, we come up with the following list in order of price and deleting the antennas we discussed.

Brand	Model	Price	Gain	f:b	Beamwidth
AC	GFM6	\$ 27	5 dB	19dB	72°
RS	151638A	30	5½	17	60
AC	GFM10	47	9	16	64
AC	GFM6 x2	54	7½	19	30 w/sidelobes
RS	151638A x2	60	8	17	30 " "
CM	4408	79	10	16	47
AC	GFM10 x2	94	11½	16	30 " "
AC	GFM6 x4	108*	10	19	30 " "
RS	151638A x4	120*	10½	17	30 " "
CM	4408 x2	158	12½	16	30 w/ smaller sidelobes than above
AC	GFM10 x4	188	14	16	30 w/ sidelobes
SC	MA5FM	214	11	17	35
SC	CA8FM	268	14	22	32
CM	4408 x4	316*	15	16	30 w/ smaller lobes
SC	MA5FM x2	428	13½	17	26
SC	CA8FM x2	536	17½	22	22 sidelobes on stacked Sitco's are so
SC	MA5FM x4	856*	16	17	26 small as to be considered non-
SC	CA8FM x4	1072	19	22	22 existent

Notice that 4 combinations are marked with an*. These are configurations that for their added cost do not represent the kind of performance gains you may expect so do not deserve alot of our attention. Also, many of the "upgrades" offer increased performance in one area only but may show a detriment in another area such as sidelobes, windloading, etc.

Two things which should be weighed are future expandability and alternate polarity pickup. When you put up a quad stack you are basically going as far as you can with that antenna. Purchasing a higher quality antenna and then stacking when the budget is fatter may make more sense long term. Another option we haven't discussed is using the added antenna not as a signal booster and directivity increaser, but to use it in the opposite polarity. This will allow reception in either polarity to enhance skip performance where polarity often comes down in only one polarity and can change over short periods of time.

All things considered, I would imagine that to have 2 quad stacks (one vertical & one horizontal) of Sitco CA8FM antennas would be the cat's meow (\$2144 plus towers, rotors, cable, etc). Yikes!

Next time for fun we'll take a look at a couple of systems to give us a real world budget idea. If you really want to spend some time with stacking theory let me know. It will of course be applicable to all antennas not just fm.

Thanks for reading. *Aug*

Vhf-Uhf DIGEST

The Official Publication of the
Worldwide TV-FM DX Association

NORTHERN FM-DX

SEPTEMBER 1985

Mixed reviews on this summer's DX so far (this should make for an easy one-liner for the index on the inside of the front cover, heh!), with Es on most June days but not too high in MUF or of great length in duration; and much of it in the morning, not great for the 9-5 crowd. The Tropo seems to be in good form; I've had one duet and missed several due to equipment (expletive deleted) and journeys to the big city; heard of good coastal Tropo from a recent hurricane, as well. So the pickins are good, so get pickin' 'n' reportin'...

ERNEST COOPER - 5 Anthony Street - Provincetown MA 02657

JAN 1985
20 Tr
1341 WHAI 98.3 MA Greenfield
1341 WSUL 98.3 NY Monticello in & out
FEB 1985
24 Tr-GW
1101 WPKN 89.5 CT Bridgeport c & comedy
MAR 1985
31 Tr
1228 WUSL 98.9 PA Philadelphia r "Power99"
APR 1985
23 Tr
0831 WPAT 93.1 NJ Paterson m "Shadow Traffic"
24 Tr
1309 WBCS 90.1 CT Willimantic in & out - weak
MAY 1985
2 GW-Tr
0230 WRBB 104.9 MA Boston (18.5 watts) "Spice-104.9-FM" s
6 Tr
0200 WSPK 104.7 NY Poughkeepsie r (WKPE off)
12 Tr
1214 WJLY 98.3 NY Hempstead m many ads
14 Tr
1642 WJIP 106.3 NY MtKisco m "Stardust-106"
15 Tr
1930 WSNJ 107.7 NJ Bridgeton Mutual nx, weak
2014 WHUD 100.7 NY Peekskill m thru WKKT null
2042 WNER 100.7 NY Wildwood r very weak
16 Tr
0158 WPMZ 100.7 PA Allentown in WKKT null, m
Solid signal, "FM-100-Plus", my first
non-Philadelphia PA FM stn; WNER in too.
0205 WRDR 104.9 NY EggHarborCity (7-saul)
0224 WDAS 105.3 PA Philadelphia b & r contests
0250 WDSO 94.7 DE Dover-Smyrna k
0919 WYFI 99.7 VA Norfolk g solid past 10001
16 Es
1253 WBIZ 100.7 WI EauClaire r in for 7 mins.
1314 WJMT 93.5 WI Merrill wx for Menaqua,
Tomahawk, & Merrill; 2 ads. (Hi Franki)
16 GW-Tr
1708 WJGQ 98.3 NJ New Brunswick m ads (No reply
to QSL request, help Joe Fela?)
22 Tr
0123 WGL 92.7 NY Middletown r "92-Rock-7"
28 Tr
0220 WJUT 92.7 NY Herkimer MYL
0254 WKGW 104.3 NY Utica "Nighttime America" &
local ancts
0305 WBQ 98.7 NY Utica b wx
31 Tr
0223 WSEA 93.3 DE Georgetown "Sea-93" "From
Greenwood to Georgetown we're the hot #, C93"

ROBERT ROSS - Box 4373, Stn. C - London ON N5W 5J2 Ham calls VE3JPC .Times EDT

EQUIPMENT: Panasonic RF1115, Marents 2226, dipole, whip, rabbit ears.

(Nice meeting you during my recent excursion to London - Saul) (By the way, a possibility that I may be moving to London.) Robert's report on next page

DX
Saul Chernos
79 Ridge Drive
Toronto Ontario
Canada M4T1B6

(Am curious re setup, don't think you ever told us - s.c.)

JUNE 1985
2 Es
1919 WOKK 97.1 MS Meridian mx by the Nitty
Gritty Dirt Band (don't tell me you
listen to that filth-saul)
1932 UNID 93.5 Interview w/k mdans, ads.
letters sent to WKLY-MS, WQGL-AL, in Merid-
ian area; WKLY didn't reply, WQGL QSLd.
(unless they're specific re prgm content
in QSL, a QSL can't be trusted; some
stations QSL no questions asked-saul)
3 Tr
0152 WSN1 104.5 PA Philadelphia EltonJohn mx
5 GW-Tr
1517 WMON 106.3 RI Woonsocket say they'll be
WNEP on JUNE 15/85!!!!
6 Tr
0240 WPIY 106.5 NY Albany r
0259 WKXE 95.3 VT White River Junction
Larry King, lcl ancts, ex-WNHV since Marl.
10 Tr
0200 WCFR 93.5 VT Springfield end NBC Talk-
net's Dr.Rubin show, nx, bb scores, r
0301 WDAS 105.3 PA Philadelphia "Reese in
the morning" r
16 GW-Tr
0145 WROM 94.9 NH MtWashington coming in
on 94.8 & 95.0, around local WRZE 94.9; b
23 GW or Tr
1350 WIMS 96.1 ME Skowhegan m ads weak but
steady; semi-lcl WERS Worcester MA off-air
1451 WLEV 96.1 PA Easton "WLEV plays favor-
ites in the Lehigh Valley" m
24 Tr
0133 WQVR 98.3 NJ Ocean City ads mx by
the Cars (r)
0150 WGN1 102.7 NC Wilmington r ads in solid
where WNEW-NYC usually is on Tr in mornings
0228 WDDZ 93.5 NC Charlotte k in nicely
till 0300. I was so excited at logging
this distant class A that I phoned & the
DJ was impressed - said there must be great
"Sky Wave" this morning!
24 Es
1831 WFPS 92.1 IL Freeport sports & news
1842 UNID 92.5 Briefly o/ WJLT w/ "This
is Easy Radio WNEZ (or WNYZ)" & gone; I'll
never know who.
1903 WMDT 96.7 MO Memphis wx theatre nx,
plug for K.City bb at 7:35 p.m., calls
sounded like KBBH though. (Get a list of
the Royals' bb stations-Saul)
Thassit, Ernest.

ROBERT ROSS cont'd

JUNE 1985

8 Tr
1901 WFSE 88.9 PA Edinboro good
1912 WKSU 89.7 OH Kent Good
1925 WYFM 102.9 PA Sharon "Y-103" VGD
1933 WZLE 104.9 OH Lorain g Vgd
1948 WHEM 102.5 NY Buffalo "Rock 102" Vgd
1952 WREO 97.1 OH Ashtabula "FM-97" Exc
2008 WQED 89.3 PA Pittsburgh Fair
2015 WYSU 88.5 OH Youngstown fair
2032 WGSB 89.3 OH Cleveland fair
2130 WCPN 90.3 OH Cleveland vgd
2300 CING 107.9 ON Burlington "FM108" oldies
2308 WBEA 107.3 OH Elyria "B-107" Vgd
9 Tr
0112 WBOC 91.5 OH Oberlin fair
0128 WNEB 94.5 NY Buffalo good

BOB ZENT - 1835 Fruit St. - Huntington IN 46750

MARCH 1985

12 Tr (WFMQ off-air)
1531 WLST 95.1 WI Marinette calls in jingle 290
29 Tr
0925 WMYE 95.5 PA Johnstown ID lcl ads 325
JUNE 1985
2 Tr
0009 CBEG 106.3 ON Sarnia s-off 200
5 Tr
2003 WLHS 89.9 OH West Chester ID (followed
by 18 mins of silence (a test?-saul) 120
7 Tr
0609 WNKU 89.7 KY Highland Hts ID 140
8 Tr
2222 WKDF 103.3 TN Nashville stn promo 330
2232 WSAK 105.5 KY FtKnox ID 210
2240 WKHO 106.3 Hodgenville "KMO wx..." 230
2300 WTHY 107.5 TN Lebanon ID 325
2305 WLAC 105.9 TN Nashville stn promo 330
2315 WKEZ 92.9 TN Nashville "It's 11:15 at 330
middle TN's favorite place for the weekend,
Easy (EZ) 93".

We've had quite a lot of E-skip during the past month, but MUF rarely goes above TV-4. Hoping for some good FM openings during July. (As it turns out few FM openings, at least for me, but some very nice, long ones-saul) 73s, Bob.

DAVE NISMAN - Akron NY 14001

JUNE 1985

1 Es at 1830 MUF 90.9 gone 1850 no IDs
2 Es at 1815 MUF 90.9 gone 1930 no IDs
7 Es
1232 KCNT 88.1 NE Hastings r 1025
8 Es 1100 for few hrs in & out, no IDs
9 Es
1115 ZBM 89.1 EM Hamilton r \$ 1000
14 Es
1331 KSLU 90.9 IA Hammond pr \$ 1070
1338 WYTN 96.3 MS Jackson kr \$ 970
17 Es
1130 WPCS 89.3 FL Pensacola g \$ 975
17 Es
1157 KSOZ 91.7 MO PtLookout c \$ 850
19 Es
1059 KUMR 91.9 WY Laramie c \$ 1375
23 Es
1016 KMCM 92.5 MT Miles City r \$ 1340
1050 KSLM 93.3 ND Jamestown r \$ 1010
1100 KSDY 95.1 MT Sidney "Country95" 1275
1401 KGGG 100.3 SD Rapid City r \$ 1220
1422 KFJM 89.3 ND Grand Forks c \$ 950

SEPT '85 NORTHERN FM DX (2)

JUNE 9 Tr cont'd

0150 WRUW 91.1 OH Cleveland Very good
2200 WSEB 102.3 PA McKean "Red-Hot-102" good
10 Es
1758 KKKO 90.3 TX Corpus Christi good c
1815 KSEJ 88.1 TX Humble g Vgd
11 Tr
1605 CHUM 104.5 ON Toronto "Chum-FM" gd
15 Tr
0042 WHYT 96.3 MI Detroit "96HYT" ex-WJR VGD
17 Es
1200 KABF 88.3 AR Little Rock "FM-88" j good
18 Tr
0203 WMO 106.1 OH Mansfield "Mansfield's
light Rock" very good
25 Tr
0200 WML 91.7 MI Alpena j Vgd

JUNE 9 Tr

0000 KZRO 104.3 AR Marshall ID 510
0100 WUTC 88.1 TN Chattanooga ID 400
0105 KWPM 93.9 MO West Plains wx ID 440
0110 KKYK 103.7 AR Little Rock ID 550
0200 KSSN 95.7 AR Little Rock ID 550
0203 KABF 88.3 AR Little Rock ID 550
10 GW-Tr
1645 WJHS 91.5 IN Columbia City testing
(new station) 19
2300 WLSO 92.7 IN Spencer ID 127
16 GW
2300 WDFM 98.1 OH Defiance tests, (will be
on air officially June 25/85) 50
23 Es
1020 WKSO 94.5 ME Ellsworth "E.M.E. wx" 850
1026 WRDO 92.3 ME Augusta ad, phone-in 780
230 (previously logged on 92.1 as WSCI)
1028 WZID 95.7 NH Manchester ID 700
1029 CKBW2 93.1 NS Shelburne County ID 1000
(a relay of CKBW-AM-1000 Bridgewater NS)
1338 KEXX 93.9 TX Corpus Christi lcl PSA ID
maybe more Es, had to go at 1340 1130

JULY 1985

1 Es
1224 KBXR 97.3 OK Weatherford r \$ 1160
2 Es
1200 KJBS 100.1 LA Bastrop k \$ 1000
1233 WWOZ 90.7 LA New Orleans e \$ 1090
1300 KQTZ 105.9 OK Hobart r \$ 1220
1421 WKOR 92.1 MS Starkville r \$ 860
1516 KRRV 100.3 IA Alexandria k \$ 1110
8 Es
1244 WFIT 89.5 FL Melbourne rp \$ 1050
1252 RADIO 90.3 CUBA Havana nx
HAVANA mx \$ 1400
1348 WFAM 90.9 FL Jacksonville j \$ 900
1359 WZNE 97.9 FL Clearwater r \$ 1060
1402 WLGA 95.9 GA Valdosta r \$ 895
1431 WPRC 90.5 GA Galsburg g \$ 820
1508 WVPJ 93.3 GA Manchester "Victory93" g \$ 780
1814 WHOP 98.7 KY Hopkinsville k \$ 630
1830 KADL 94.9 AR Pine Bluff k \$ 940
1933 KFTX 104.9 KS Emporia r \$ 975
1939 KUDL 98.1 KS Kansas City r \$ 870
1941 KCLY 100.9 KS Clay Center \$ t Kcbb 1000

JULY 12 Es
 2132 KILI 90.1 SD Porcupine r \$ 1170
15 Es
 1047 KCSO 90.9 SD Sioux Falls c \$ I 885
 think it was first day on air
 1113 KILS 93.9 SD Rapid City r \$ 1220
 1120 KWYR 93.7 SD Winner r \$ "Magic 93" 1065
 (WBLK off-air)
 1130 KSCY 95.1 SD Deadwood r \$ 1250
 1132 KRCG 94.3 SD Brookings r \$ 885
 ("Rock-94")

A Sony TFM-1102 with a 34' tower & rotor - BURNT RIVER ON

EQUIPMENT: Saul Chernos.

Ever get the feeling that your equipment OWNS you? Everytime a good opening happens, my equipment seems to go pthhvvvttt! The missed DX. The repair bill. I think my sanity's been lost somewhere in the backwoods of Burnt River. So that explains many non-DX days:

JUNE 1985

22 Es (cont'd from last month)
 2123 WUW 88.1 FL Pensacola
 2125 WJST 94.5 FL PtStJoe WolfmanJack "T-94"
 2135 WJRC 92.1 FL Williston k
 2150 WMAW 88.1 MS Meridian
 2151 WCKW 92.3 IA LaPlace "RiverParishRadio"
23 Es
 1421 KWYR 93.7 SD Winner "Magic 93" r
24 Es (best Maritime Es ever here)
 1602 CENM 90.3 NF Marystown CBC-Radio EE wx
 1604 CKOZ 92.3 NF CornerBrook r "Oz-FM" wx
 1605 CBAP 29 88.1 PE Charlottetown CBC-Radio FF
 1606 CBAP 26 88.5 NB Moncton (new territory!)
 1614 CBAA 90.5 NB Campbellton local CBC prgm
 1615 CBAA 17 89.3 PQ Gaspé (1st PQ by Es!)
 1620 CBCT 96.9 PE Charlottetown EE CBC QTH
 1621 CHLO 93.1 PE Ch'town QTH (under worst lcl)
 (& even atop CHAY, 1st 93.1 Es stnl)
 1636 CBHC 89.1 NS Truro EE CBC NSnx
 1640 CBYP 89.5 NF Portland Creek lcl nx EE CBC
 1646 CBVG 88.5 PQ Gaspé EE CBC area nx
 1655 CBKF 4 91.9 SA Bellegarde FF CBC w/lcl wx
 so I know direction changed, still Canada!
 1700 KMFR 88.9 ND Minot KME-KMFR dual ID legal
 1706 CBK 96.9 SA Regina CBC \$ EE local wx
 26 Tr
 1725 CBF 100.7 PQ Montreal FF CBC \$ o/CHIN

JULY 1985

2 Es
 1200 KRRV 100.3 LA Alexandria "\$-Country-wx"
 1201 KTEP 88.5 TX ElPaso lcl nx (DISTANT Es)
 1202 KRVS 88.7 LA Lafayette
 1205 W7?? 90.7 FL Panama City "FM 90" QTH
 1231 KNLW 93.9 TX San Angelo k
 1236 WQID 93.7 MS Biloxi "94-QID" r
 1237 KETR 88.9 TX Commerce "East TX State"(univ)
 1427 WJMG 92.1 MS Hattiesburg
 1428 WCKW 92.3 LA LaPlace
 1430 WQST 92.5 MS Forest "92QST", "92Country"
 1450 WNNQ 89.9 LA NewOrleans "90FM" pledges
 1451 WQUE 93.3 LA N.O.s
 1459 WWOZ 90.7 LA N.O. s
2 Tr
 1600 WUOM 91.7 MI Ann Arbor wx
8 Es
 1442 WPAP 92.5 FL Panama City
 1740 WJLQ 100.7 FL Pensacola r "Q-100"
 1746 WDTN 89.7 TN Chattanooga "\$-90"
 1747 WQID 93.7 MS Biloxi
 1749 WMAJ 96.5 AL Birmingham "Magic"
 1753 WUPJ 96.7 MS Gulfport

JULY 15 Es cont'd
 1144 KMIT 105.9 SD Mitchell k \$ 975
 1201 KRSD 88.1 SD Sioux Falls c \$
 (Minnesota Public Radio) 885
 1204 KYSR 97.9 SD Rapid City g mono 1220
 1216 KQLT 103.7 WY Casper b \$ 1380
 1231 KBHE 89.3 SD Rapid City c \$ 1220
COMMENTS: By far the best month-and-a-half of
 E-Skip I've heard in years. I had enough relog
 IDs to fill two pages in a report. -Dave.

JULY 8 Es cont'd

1756 WWSL 100.3 MS Laurel
 1759 WMAW 88.1 MS Meridian
 1759 WUAL 91.5 AL Tuscaloosa
 1800 WMAU 88.9 MS Bude //88.1 MS netwk.
 1800 WRBH 88.3 LA N.O. talking book
 1801 WCKW 92.3 LA LaPlace
 1805 WJLM 94.3 TN Lewisburg AM-FM dual ID
 1806 WQST 92.5 MS Forest nx
 1811 WMPR 90.1 MS Jackson
 1815 WSMU 106.3 MS Starkville sports
 1818 WKTV 106.7 MS Vicksburg k "KY-Country"
 1830 WJJC 107.5 MS Magee k
 1832 WFGA 107.9 MS Ackerman g
 1847 KAEF 88.3 AR Little Rock p
 1852 KHTT 94.1 AR L.R. "The new K-Lite 94"
 1857 KLRE 90.5 AR L.R.
 1900 KTKX 91.5 TX Texarkana
 1901 KSEC 90.1 AR HotSprings g
 1903 KORE 92.3 KS Newton "Easy 92" b
 1905 KZZZ 98.9 KS Leavenworth "ZZ-99"
 1908 KYZE 93.7 KS Salina "KY CountryFM 94" k
 1913 KXCV 90.5 MO Maryville wx (now 85")
 1915 K??? 92.5 KS Phillipsburg QTH
 1918 KWOD 97.5 OK Tulsa contest
 1919 KXXY 96.1 OK OklahomaCity "KXX"
 1920 KRAV 96.5 OK Tulsa
 1922 KICT 95.1 KS Wichita "T95"
 1925 KPMZ 98.3 MO Columbia r
 1929 KEEC 94.7 OK O.K.C.
 1930 KKNQ 92.5 OK O.K.C. "King" b
 1930 unID 89.3 g QTH wx for Springfield &
 lcl nx; ID KWFC - on 97.3, no? WEIRD!!!
 2000 KHCC 90.1 KS Hutchinson
 2000 KCSO 90.1 OK Edmond
 2001 KOBC 90.7 MO Joplin g
 2002 KJLC 88.5 MO K.City
 2005 KMUW 89.1 KS Wichita
 2007 KZOC 92.7 KS Osage City "KZ-93" wx
 2010 KBUZ 106.5 KS Arkansas City "K-Buzz" DISCO
 2012 KLZS 97.9 KS Wichita
 2013 K??? (tnx Mike Reid for call at work)
JULY 15 Es
 1200 KNEB 94.1 NE Scottsbluff
 1201 KILI 90.1 SD Porcupine native, EE, Kili, r
 1203 KUWR 91.9 WY Laramie NPR wx
 1205 KDCR 88.5 IA Sioux Centre g
 1218 KMOW 92.9 NE Scottsbluff contest
JULY 18 Tr (SUPER DUCTING)
 1117 WSKG 89.3 NY Binghamton
 2126 WRKR 100.7 WI Racine r
 2130 WJLM 89.3 IA East Moline Moody g ID
 2145 WMBI 90.1 IL Chgo Moody g. MORE OCT/85

REVIEW

ALLIANCE HD-73
 ANTENNA ROTOR

by Rich Wertman

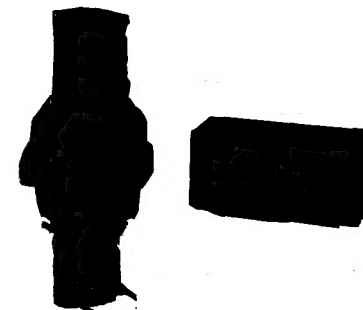
Well, this rotor is definitely heavy duty, if that's what you're looking for! I purchased an HD-73 two years ago for a very reasonable price and believe I got a heck of a buy. Upon receipt of the rotor my eyes amazed me, seeing how the outer case of this rotor was constructed. I believe that the CDR and Hy-Gain top-of-the-line models at higher prices don't stand up to this one, at least in the case and mounting design.

Most rotors use the body of the rotor to mount the mast into. The HD-73 uses separate 3/4" plates on either side and both top and bottom. These plates are then bolted to the motor body by four 5/16" hex bolts on top and bottom! Then you have three tightening devices for your mast. You have two 5/16" bolts closest to the rotor body, then a H.D. U-clamp through the outer end. If that wasn't enough to hold your mast in place, they also give you two cone-shaped set screws (on top and bottom), which bite into the mast, so it won't move in the worst winds!

HD-73 HEAVY-DUTY ROTATOR

with exclusive Dual-Speed Control

For antennas up to 10.7 sq. ft. of wind load area. Mast support bracket design permits easy centering and offers a positive drive no-slip option. Automatic brake action cushions stops to reduce inertia stresses. Unique control unit features DUAL-SPEED rotation with one five-position switch. SPECIFICATIONS: Max. wind load bending moment—10,000 in.-lbs. (side-thrust overturning); Starting torque—400 in.-lbs.; Hardened steel drive gears; Bearings—100- $\frac{3}{4}$ " diameter (hardened); Meter—D'Arsonval, taut band (back-lighted). There's much, much more—so get the whole story!



This rotor has two full raceways of 100 ball bearings for smooth operation. It incorporates a new automatic brake system. It is factory lubricated with a lifetime lubricant that will withstand -20 to +120 degrees Fahrenheit. The rotor also uses very heavy pitched gear teeth, which are quite a value for its price! One of the best features, and my favorite, is its dual speed operation. This really comes in handy for pinpointing those real DX stations!

There are a few safety devices on the control box. An internal thermal protector will shut the rotor down if its heat is too great. I find this a pain in the rump when you're having a heavy DX opening, but bypassing it will ruin your transformer or more. The answer to this problem is to keep it cool, I found, by either removing the cover on hot days, or by installing a muffin fan in the unit the control box will never get hot enough to kick out. I installed a muffin fan and a few small vent holes to release the hot air, with fantastic results.

Other than the thermal protector I can find no problem with this rotor. It's rated at 10.5 square feet of wind load, but I think it'll handle more! It will accept 1 3/8" to 2 1/2" O.D. mast (don't bother using 1 1/4"). The rotor weighs 11 1/2 lbs. with both mounting plates on it. The only cheap thing about it is the plastic control box. I personally would like a metal box. However I feel the guts are where they count!

It uses 6 conductor cable which is quite rare; most use 8 conductor and put two on the heavier voltage points. My overall view is good on this unit. I believe it to be well worth \$100.00 to \$140.00, depending where you buy it from! I would rate this rotor a 9 on a scale of 10—only because of the plastic control box. That wouldn't phase my decision though.



PHOTO-NEWS

David J. Nieman
12284 Nice Road
Akron, NY 14001
U.S.A.



This month we go back to Dixon, IL with more DX photos from Bill Eckberg.....

The photo of WUHF-18 was taken about 1963 and was in an old camera Bill had lying around for 21 years before having it developed. "I am 80% certain it is now WTV-18 Milwaukee, Wisconsin. I also have a picture of this station taken (dated June) 1961 and their call letters were WXIX-18 then. Earlier they were on ch. 19 too. If it isn't Milwaukee someone will know."



KNAZ-2 Flagstaff, AZ 1256 mile
E-skip from October 16, 1984



WQLN-54 Erie, PA 481 mile
tropo from October 28, 1984

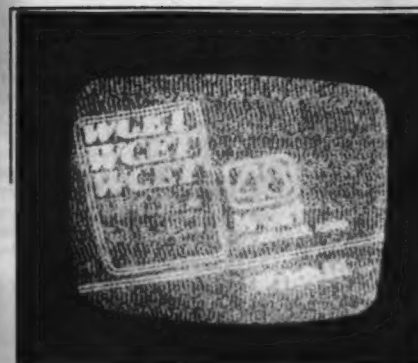


KHNE-29 Hastings, NE 464 mile
tropo from October 29, 1984

On the next page are some of my DX photos from 1984. They are not as good as Bill's, but still maybe of interest.

Till next time,

Dave



WCET-48 Cincinnati, OH 405 mi.
tropo from Sept. 12, 1984



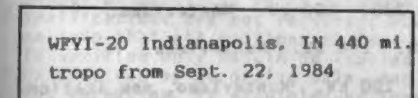
WTIC-61 Hartford, CT 300 mile
tropo from Sept. 25, 1984



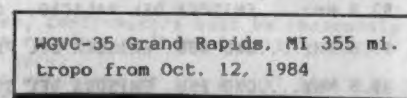
WKMR-38 Morehead, KY 410 mile
tropo from Sept. 12, 1984



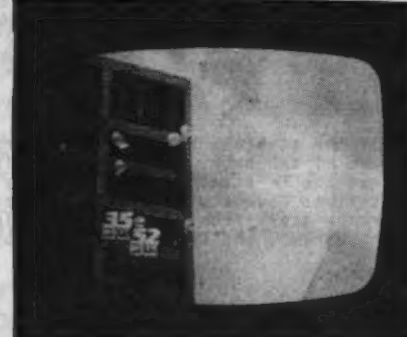
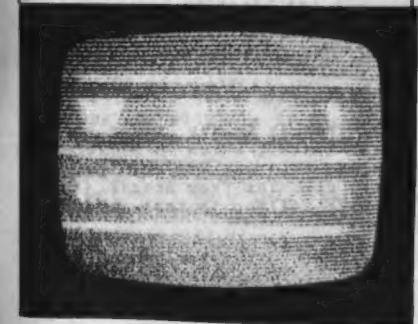
WXNE-25 Boston, MA 375 mile
tropo from Oct. 11, 1984



WFYI-20 Indianapolis, IN 440 mi.
tropo from Sept. 22, 1984



WGVC-35 Grand Rapids, MI 355 mi.
tropo from Oct. 12, 1984



SPECIAL REPORT

FM IN URUGUAY

by ANSELMO ROCCA FORTE

I am an electrical engineer and I belong to the technical staff of LR-11 Radio Universidad La Plata, Argentina. I live in a suburban zone, called Ringuelet; near La Plata city. La Plata is a city university (as Madison, Wisconsin). I live 45 miles from Buenos Aires City, the capital of the country. I live 1.5 miles from the La Plata River, and across this river is Uruguay; 130 miles away is Montevideo, the capital of Uruguay.

The propagation from the stations over the river from Uruguay is a subject in which I am engaged now. I am using a reference of FCC study publications which I received from Washington DC. My "big problem" is a way to measure the level of the signals in all the bands. I'm writing about the status of the FM stations in Montevideo, as I monitor them in my home and have information from the stations' technical staffs.

Uruguay is a small country, with about 80 MW stations, about 20 TV stations (all in the VHF band), and an increasing number of FM stations. They have granted nearly 50 new FM stations. Uruguay, as do all the countries in South America, uses the 88 to 108 MHz band for FM. Montevideo has increased its number of FMs from two to seven commercial stations. There is one non-commercial which belongs to the government radio services, but it is off-the-air at the time I am writing this article. Uruguay had a big political change several months ago (as in my country a year and a half ago), when they went from a military government to a democratic government. Under the new government the new FM radio stations have come on the air. In my home I can hear 6 of the 7 stations all day, everyday. Of course, the signal level changes with the hour of the day and the weather conditions, but the signals are increasing with the tropo propagation now.

This list shows the actual status:

88.3 MHz...CX 202 EMISORA DE LA COSTA. 100 watts. This station is 10 miles from Montevideo, in Solimar Beach. New station.

93.9 MHz...EMISORA DEL PALACIO. CXA 230. 100 kW. Montevideo.

95.5 MHz...CXD 238 EMISORA DEL PLATA. 100 kW. Montevideo.

99.5 MHz...CXD 258 EMISORA DEL SOL. 100 kW. Montevideo, new station.

100.3 MHz...CXD 262 EL DORADO FM STEREO. 10 kW. Montevideo, new.

101.9 MHz...CXD 270 EMISORA AZUL. 100 kW. Montevideo, new station.

105.9 MHz...CXD 290 EMISORA GALAXIA. Power unknown. New station.

All the stations have a similar programme; that is to say, music with news at the hour. But the music is for all tastes, which is different than the FM stations in my country, which has 90% rock music. The stations have a wide spectrum of equipment: consoles from Brazil, transmitters from USA (Harris, which is ample selling in this part of the world), and CP antennas made by Andrews.

WTFDA GUIDELINES FOR COMPUTING TV-FM DISTANCE RECORDS AND SCOREBOARD TOTALS

For those of you new to WTFDA, and for those longtime members who wanted to see them again, here they are. These are the club guidelines to be used when counting stations to report your totals to your TV and FM STATISTICS column editors. Remember, they are the club's official guidelines, FOR THE PURPOSE OF COMPUTING CLUB DX RECORDS ONLY. Members reporting to the DX columns are free to use whatever method of counting stations they choose, but must use the standards below when claiming a club record. We do suggest that you also use these guidelines when reporting to DX columns; otherwise, your DX column editor may decide not to use your report. Please note: WTFDA H.Q. supports the decisions of our DX column editors, and reserves the right to delete any reports that are found to be fraudulent.

- 1] A TV station received on more than one channel (when it changes channel, but retains its identity) may be counted once for each channel, excluding change in offset on the same TV channel. Simultaneous reception of the same station on more than one channel is usually a receiver problem only, though you may present evidence to the contrary. An FM station may be counted again when it deliberately changes frequencies, or varies more than 100 kHz from its normal frequency. DXers should be certain they are not counting receiver images or mixing products.
- 2] Stations operating successively on the same channel in a single city that are clearly unrelated (i.e., with different call letters and a hiatus in occupation of the channel, or non-renewal of the first station's license) are counted as separate stations.
- 3] A move in a station's transmitter location does not allow it to count as a new station unless the CITY OF LICENSE also changes. Thus, a station starting in a small city and later moving both transmitter and identity to a larger city, if received during both phases of operation, will count twice. Stations moving antenna from downtown to suburbs, for example, with no change in the city of license, count only once. The addition of a city to a station's identity (multiple city station identification) does not count as a new station.
- 4] A change in call letters per se is not sufficient reason to count that station as new, whether or not a change in ownership is involved in a continuously operating station. Power level or changes in power alone shall have no bearing on these guidelines.
- 5] Sharetime stations (rare cases of two stations in the same coverage area sharing the same frequency at different times of the day) count as one if they share their transmitter; individually if they have separate transmitter sites.
- 6] DX received via cable TV may be counted if the station was received off the air on its original frequency at the CATV headend, from which distances must be measured. TOTALS INCLUDING CATV MUST BE SPECIFIED.
- 7] The precise location of the transmitting antenna of the station shall be the determining factor in computing the DX path distance and tallying the number of political units received.
- 8] Verifications are not required; however, contributors must be reasonably certain that all stations claimed were received. Those totals limited to verified only should be labeled as such.
- 9] DX obtained by recording only, and not witnessed at the actual time of the reception, is eligible--so long as the contributor himself chose the frequency and prepared the recording apparatus. When more than one DXer is present at a DX reception, even as a visitor to another DXer's shack, only those having an active part in the reception may claim the DX.
- 10] Translators and experimental stations, as well as unlicensed outlets such as pirates and clandestines, are eligible. Harmonics of TV video signals are eligible if they fall within another TV band, and those of FM stations are eligible if the harmonics fall within the FM band. But utility stations monitored on FM or TV, and CATV radiation, do not count.
- 11] Any DX received within a 50 mile radius of a DXer's primary location may be included in scoreboard totals; but if more than two locations are used, all must be within an equilateral triangle 25 miles on each side. Include all stations eligible and monitored in scoreboard totals, whether "local" or actual DX.



STATION BREAK

WTFDA H.Q.
P.O. Box 514
Buffalo, NY 14205-0514

WTFDA member ads only. 3 line or 30 word limit.

FOR SALE - Complete set of offset issues of VHF-UHF DIGEST, from May 1972 - June 1984. Total of 146 issues. Perfect condition. \$100, plus shipping. David Walcutt, 211 W. 56 St., Apt. 36F, New York 10019. Phone (212) 315-1286.

TO TRADE - Political campaign buttons from elections, leadership races, rallies, etc. I can supply Canadian political promo stuff best, but I collect American & "Foreign" as well. Saul Chernos, 79 Ridge Drive, Toronto, Ontario CANADA M4T 1B6.

WANTED - USED 6AF4 tubes, or equivalent. Also, Blonder Tongue BTU-2S converter(s). Need not be operable. William Draeb, Ellis St. R.R. #2, Kewaunee WI 54216. (414) 388-2350.

FOR SALE - New Antennacraft P-7's \$64.95, P-5's \$44.95, RG11U 28 cents a foot, 25 cents over 100', .500 hardline connectors to male "F" connectors \$4.50 or two for \$8.00, plus shipping. Write or call Rich Wertman, 315 Pine Street, Lockport NY 14094.

WANTED - One new or used Winegard AC-9730 amp w/housing, also Teknika tuners, please help! Rich Wertman, 315 Pine Street, Lockport NY 14094.

FOR SALE - Winegard 6-element FM antenna, xln condition, \$20.00 plus UPS. Eric Bueneman, 836 Lamplight Lane, Hazelwood MO 63042.

WANTED - Belden coax cable RG6U #9060 - 100 ft. Also Channel Master 6' UHF dish antenna (Parascope). I'd appreciate suggestions where to buy them. Yefim Mosenkis, 155-22 Jewel Ave., Apt. 7D, Flushing NY 11367.

FOR SALE - 1 set booms for Winegard CH8200, \$25. I'll pay shipping. Doug Dornbos, 3009 Port Sheldon, Hudsonville MI 49426.

YOUR non-commercial ad can appear in the VUD free of charge! Got a piece of DX gear you'd like to sell? Looking for something? Advertise in STATION BREAK. This feature appears on a space available basis. WTFDA assumes no responsibility for any claims made by advertisers--our trust is implicit, as fellow DXers.

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